

SITE HEALTH AND SAFETY PLAN (HASP)

Office: WESTON CHI
Site Name: Ottawa Radiation Area; NPL-1, NPL-4, NPL-11
Client: United States Environmental Protection Agency (Region 5)
Work Location: Ottawa, Illinois
WO#: 20405.012.008.0385.00



SITE HEALTH AND SAFETY PLAN (HASP)

Prepared by: Jeff Bryniarski	W.O. Number: 20405.012.008.0385.00	Date: 12/9/13
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Project Identification Ottawa Radiation Area (various sites)	
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Office:	CHI
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Site Name:	Ottawa Radiation Area OU2
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Client:	U.S. EPA
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Work Location Address:	Ottawa, IL
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Site History: The NPL-1 Site is approximately 5-acres and consists of several parcels of land located at the intersection of Lafayette and Guion Streets in Ottawa, LaSalle County, Illinois. The NPL-1 Site is bordered by several residences located on Lafayette Street to the north; by residences located on Post Street and property owned by the YMCA to the west; by Fox River to the south; and by the Marquette High School athletic field to the east. The NPL-1 Site was subdivided into NPL-1A and NPL-1B. The NPL-1A Site is bordered by Lafayette Street to the north, Guion Street to the west, the Ottawa river walk and Fox River to the south, and Marquette High School athletic field to the east. The NPL-1B Site is bordered by residences along Lafayette Street to the north, residences to the west, the Ottawa river walk and the Fox River to the south, and Guion Street to the east.

Between 1995 and 1997, as part of a Superfund Removal Action, 12,000 cubic yards (12,040 tons) of radium-contaminated soil was excavated from the southeast corner of Lafayette and Guion Streets (NPL-1A) and from an area directly south of three residences located on Lafayette Street (NPL-1B). Due to depletion of removal action funds, U.S. EPA terminated the excavations at approximately 6 to 8 feet bgs and clean backfill was placed into the excavations.

From 2006 to 2007, a Remedial Action at the NPL-1 Site was conducted. As part of the Remedial Action at the NPL-1A Site, radium-contaminated soil was excavated to a depth of 15.6 feet bgs [458.18 feet mean sea level (msl)], approximately 3 to 5 feet beneath the water table. Groundwater was encountered at a depth of approximately 10.2 feet bgs (473.84 feet msl). The excavation was terminated based upon the observation of native black silt layer and confirmation sample results. A total of 1,853.82 tons special waste and 2,354.32 tons radiological waste were excavated. All of the contamination was removed except for one area in the northwest corner where the contamination extends under Guion Street.

As part of the Remedial Action at the NPL-1B Site, radium-contaminated soil was excavated to a depth of 15.6 feet bgs (458.18 feet msl), approximately 3 to 5 feet beneath the water table. A total of 3,059.41 tons special waste and 4,148.62 tons radiological waste were excavated. All of the contamination was removed.

During the Remedial Action, soil samples were collected beneath Guion Street. A total of 14 soil borings were advanced along the west and east sides of the roadway. The soil borings were advanced to the native material, which was encountered from 9.5 feet bgs to 15.5 feet bgs. Two soil samples (NPL1-SB03-9 and NPL1-SB11-12) were collected based on field screening with a Geiger-Müller (GM) pancake probe and submitted for laboratory analysis of radium-226. Soil sample NPL1-SB03-9 (9-10 ft) indicated a radium-226 concentration of 176 picoCuries per gram (pCi/g).

The study area includes Guion Street (approximately 30-feet wide and 120-feet long) and private property south of Guion Street (approximately 30-feet wide and 240-feet long). The study area is bordered to the north by Lafayette Street and to the south by Fox River. Guion Street is asphalt-paved and the private property consists of open, grassy area.

Underground utilities known to exist in the study area include a storm sewer which extends north to south along the center of Guion Street and a sanitary sewer which extends north to south along the eastern boundary of the study area. Based on previous sampling results, the contamination is known to be present beneath the asphalt-paved (northern) section of Guion Street, near Lafayette Street. Suspected areas of radium-226 contaminated soils may include the open, grassy areas extending south towards the Fox River, and may also include private property to the east and west of the proposed investigative area. The contamination is heterogeneous and is suspected to be present to a maximum depth of 20 feet below ground surface (bgs). The water table was recorded at a depth of 10.2 feet bgs during the Remedial Action. However, the water table level is influenced by Fox River and rain events. Therefore, depth to groundwater is currently expected to range from 8 to 12 feet bgs.

The Ottawa Radiation Area, NPL-11, site is within and just outside the city limits of Ottawa, LaSalle County, Illinois. NPL-11 consists of a house and an open residential lot on Bellevue Avenue. The open residential lot is bordered by Bellevue to the north and Goose Creek to the south and residences to the east and west. The contamination at this site is the result of activities associated with two radium dial painting companies: the Radium Dial Company, which operated in Ottawa from 1920 through 1932, and Luminous Processes, Inc. (LPI), which operated in Ottawa from 1932 through 1978. The source of contamination is radium sulfate paint that Radium Dial and LPI used in their dial painting operations. During the course of operations at these companies, their equipment, materials, buildings, and surrounding work areas became contaminated with radium-226, the major isotope of radium sulfate.

Scope of Work: Sample material currently staged in drums at the NPL-4 site, wipe down drums and restage on poly sheeting, have drums loaded for offsite disposal, and placement and retrieval of radon detectors in residential homes and commercial buildings

☐ Site visit only; site HASP not necessary. List personnel here and sign off below:

☐ Utility notification required. If required, provide utility notification agency, authorization number, and valid dates:

Regulatory Status:

Site regulatory status:

CERCLA/SARA **RCRA** **Other Federal Agency**

☒ U.S. EPA ☐ U.S. EPA ☐ DOE
☒ State ☐ State ☐ USACE
☒ NPL Site **NRC** ☐ Air Force
☒ OSHA ☐ 10 CFR 20 ☐ _____

Hazard Communication (Req'd See Attachment D)

☒ 1910 ☒ 1926 ☒ State

Safety Officer Manual (Required to be On-Site)

Based on the Hazard Assessment and Regulatory Status, determine the Standard HASP(s) applicable to this project. Indicate below which Standard HASP will be used and append the appropriate pages of this form along with the Standard Plan.

☐ Stack Test ☐ _____
☐ Air Emissions ☐ _____
☐ Asbestos ☐ _____
☐ Industrial Hygiene ☐ _____
☐ _____ ☐ _____

Review and Approval Documentation:

Reviewed by:

SO/DEHSM/CEHS Tonya Balla Date: 12/10/13
Name (Print) Signature

Environmental.

Compliance Advisor _____ Date: _____
Name (Print) Signature

Approved by:

Project Manager Rick Mehl Date: _____
Name (Print) Signature

Hazard Assessment and Equipment Selection:

In accordance with WESTON's Personal Protective Equipment Program and 29 CFR 1910.132, at the site prior to personnel beginning work, the FSO and/or the Site Manager have evaluated conditions and verified that the personal protective equipment selection outlined within this HASP is appropriate for the hazards known or expected to exist. (Refer to CEHS Program Manual Section 5, Personal Protection Program, for guidance.)

☒ **FSO** Tim Walls Date: _____
Name Signature

☐ **Site Manager** _____ Date: _____
Name Signature

☐ **Project Environmental Compliance Officer** _____ Date: _____
Name

☐ **Dangerous Goods Shipping Coordinator** _____ Date: _____
Name

Project start date: 12/12/13

End date: TBD

This site HASP **must** be
reissued/reapproved for any
activities conducted after:

Date: 3/12/14

Amendment date(s)

1.
2.
3.
4.

By:



BEHAVIOR-BASED SAFETY (BBS) – Pledge

I Accept and Understand 100% Safe Work Is an Achievable Goal

- ★ I will work to develop strong connections and team with my co-workers to establish a culture of working safely 100% of the time.
- ★ I will actively care about all Weston employees, our families, team contractors and clients.
- ★ I will help to keep our projects safe and will meet and exceed compliance requirements.
- ★ I will understand and comply with the Health and Safety Plan, Accident Prevention Plan, and Environmental Compliance Plan for each field project. They guide my actions.
- ★ I will stop any work that presents an imminent hazard to people or the environment or is not adequately addressed in the Health and Safety Plan, Accident Prevention Plan, or Environmental Compliance Plan.
- ★ I will identify changing conditions to address safety implications. No surprises!
- ★ I will identify unsafe working conditions and be proactive in correcting them.
- ★ I will coach and mentor and will accept coaching from others to encourage safe work behaviors.
- ★ I am empowered to share lessons-learned and foster continuous improvement.

I will Learn where I can get Assistance

- ★ I will develop high quality relationships with my Division Environmental, Health, and Safety (EHS) Manager; Profit Center Safety Officer; and Field Safety Officer.
- ★ I will learn how and when to contact our Environmental Advisors.
- ★ I will get to know our Corporate EHS staff and become familiar with the Corporate EHS Portal Site.

I will Report All Incidents

- ★ If a safety incident occurs, even if there is no injury or damage but there could have been, I will report the incident immediately.
- ★ I will conduct safety reviews of all incidents with my supervisor, if requested. The review will focus on cause and lessons-learned so that we can be proactive in preventing it from happening again.

PROJECT QUALITY PLEDGE GUIDE

Living by our core value of “Exceptional Quality” means we deliver products and services that meet the highest standards. In doing so, we strive to identify, understand, and execute the project scope of work according to our clients’ exceptional performance expectations. The Project Quality Pledge is the process we use to ensure our clients’ exceptional performance expectations are met – every time.

This document provides guidance and links to examples for developing and executing a successful Project Quality Pledge. All Pledges will not be the same; what is important is that **your** Pledge makes sense to **your client and your team**. Project Quality Pledges can be very detailed ([PENREN](#)), or streamlined ([IAS](#)), depending on what works for your client and team. It can be a stand-alone document or incorporated into the Project Execution Plan or Project Instructions ([Fort Sam](#)).

The three most important aspects of the Project Quality Pledge are:

- Talk to your client frequently
- Understand your client’s exceptional performance expectations
- Communicate client expectations to your team

[Talk to Your Client](#)

You cannot know your clients’ exceptional performance expectations without talking to them. We must initiate and sustain a dialog with our clients. The ‘client’ may include several stakeholders, so communication is essential.

- Focus on exceptional performance expectations in all project phases (proposal to completion).
- Hold regularly-scheduled discussions with the client to ask about Weston performance.
- Schedule client-Weston meetings if any key client contacts change.
- Review/revise quality goals if client expectations change.
- Document and address client issues or suggestions and share with your team.

[Understand Your Clients’ Exceptional Performance Expectations](#)

At its very basic level, the Pledge should identify our overall commitment to the client, including a statement describing that commitment ([Surf City](#)). Ask yourself, what is the shared vision?

- Define the clients’ exceptional performance expectations. These expectations translate into one or more goals included in the Pledge ([EcoTourism](#)). Inquire about any sustainability goals the client may have and discuss how our project could incorporate these goals.
- Develop the Project Quality Pledge. The lead for this effort is typically the CSM or PM.
- Identify and link WESTON and client contacts to ensure zippered communication. These contacts can be recorded in the Pledge or elsewhere; the important point is to link Weston and client contacts ([Sherwin Williams](#)).

[Communicate Client Expectations to Your Team](#)

In order to meet our client’s exceptional performance expectations, we must secure the project team’s commitment to those expectations. Each team member should not only understand the Project Quality Pledge, but should also be able to articulate it to others and identify his/her specific role in achieving it.

- Discuss the Pledge at the kickoff meeting & regularly scheduled project meetings.
- Ensure each team member understands the Pledge, and his/her specific role.
- Have team members sign the Pledge. The Pledge can define each person’s specific role along with their signature ([IAS](#)), or provide a signature page for the overall pledge ([EcoTourism](#)).

TABLE OF CONTENTS

Section	Page
1. PERSONNEL ON SITE INFORMATION	1-1
1.1 WESTON REPRESENTATIVES	1-2
1.2 WESTON SUBCONTRACTORS	1-2
1.3 SITE PERSONNEL AND CERTIFICATION STATUS	1-3
1.3.1 WESTON Employee Certification	1-3
1.3.2 Subcontractor's Health and Safety Program Evaluation	1-4
2. HEALTH AND SAFETY EVALUATION	2-1
2.1 HEALTH AND SAFETY EVALUATION	2-2
2.1.1 Task Hazard Assessment	2-2
2.1.2 Chemical Hazards of Concern	2-3
2.1.3 Biological Hazards of Concern	2-4
2.1.4 Radiation Hazards of Concern	2-5
2.1.5 Physical Hazards of Concern	2-6
3. SITE SECURITY	3-1
3.1 SITE SECURITY ASSESSMENT FORM	3-2
3.2 WESTON SITE SECURITY CHECKLIST	3-3
3.3 SITE SECURITY ASSESSMENT FORM	Error! Bookmark not defined.
4. TASK BY TASK ASSESSMENT	4-1
4.1 TASK-BY-TASK RISK ASSESSMENT	4-2
4.1.1 Task 1 Description	4-2
4.1.2 Task 2 Description	4-3
4.1.3 Task 3 Description	4-4
4.1.4 Task 4 Description	4-5
4.1.5 Task 4 Description	4-6
4.2 PERSONNEL PROTECTION PLAN	4-7
4.3 DESCRIPTION OF LEVELS OF PROTECTION	4-8
5. MONITORING PROGRAM	5-1
5.1.1 Air Monitoring Instruments	5-2
5.1.1 Air Monitoring Instruments Calibration Record	5-3
5.2 SITE AIR MONITORING PROGRAM	5-4
5.3 ACTION LEVELS	5-5
6. HOSPITAL INFORMATION	6-1
6.1 CONTINGENCIES	6-2
6.1.1 Emergency Contacts and Phone Numbers	6-2
6.1.2 Hospital Map	6-4
6.1.3 Response Plans	6-5
7. DECONTAMINATION PLAN	7-1
7.1 GENERAL DECONTAMINATION PLAN	7-2
7.2 LEVEL D DECONTAMINATION PLAN	7-3
7.3 LEVEL C DECONTAMINATION PLAN	7-4
7.4 LEVEL B DECONTAMINATION PLAN	7-5
8. TRAINING AND BRIEFING TOPICS/SIGN OFF SHEET	8-1
8.1 TRAINING AND BRIEFING TOPICS	8-2
8.2 HEALTH AND SAFETY PLAN APPROVAL/SIGNOFF FORM	8-3

ATTACHMENTS

ATTACHMENT A	Chemical Contaminants Data Sheets
ATTACHMENT B	Safety Data Sheets
ATTACHMENT C	Safety Procedures/Field Operating Procedures (FLD Ops)
ATTACHMENT D	Hazard Communication Program
ATTACHMENT E	Air Sampling Data Sheets
ATTACHMENT F	Incident Reporting
ATTACHMENT G	Traffic Control Plan
ATTACHMENT H	Environmental Health & Safety Inspection Checklist
ATTACHMENT I	Hazard Checklist (Single Page)
ATTACHMENT J	Audit and Other Forms

July 2012

1. PERSONNEL ON SITE INFORMATION

1.1 WESTON REPRESENTATIVES			
Organization/Branch	Name/Title	Address	Telephone
Weston Solutions/Central Division	Rick Mehl/Project Manager	20 North Wacker Drive, Suite 1210 Chicago, IL 60606	312-424-3312
Weston Solutions/Central Division	Tim Walls/Project Geoscientist	750 East Bunker Court, Suite 500 Vernon Hills, IL 60061	847-918-4130
Roles and Responsibilities:			
1.2 WESTON SUBCONTRACTORS			
Organization/Branch	Name/Title	Address	Telephone
TBD	Name: Title:	Street: City: State, Zip:	
	Name: Title:	Street: City: State, Zip:	
	Name: Title:	Street: City: State, Zip:	
Roles and Responsibilities:			
Transportation and disposal of drummed investigation-derived waste			
SITE-SPECIFIC HEALTH AND SAFETY PERSONNEL			
The Site Field Safety Officer (FSO) for activities to be conducted at this site is: Tim Walls			
The Site Manager has ultimate responsibility for ensuring that the provisions of this Site HASP are adequate and implemented in the field.			
Changing field conditions may require decisions to be made concerning adequate protection programs. Therefore, the personnel assigned as FSOs must be experienced and meet the additional training requirements specified by OSHA in 29 CFR 1910.120.			
Qualifications: Person selected for the site activities will be current on all required certifications including First Aid, CPR, Bloodborne Pathogens, 40-hr/Refresher, medical, and SHSC course. All personnel onsite will adhere to the Radiation Protection Plan (WESTON, Jul 2006). Personnel have previous experience with the site.			
Designated alternates include: TBD			

1.3 SITE PERSONNEL AND CERTIFICATION STATUS

1.3.1 WESTON Employee Certification

Name: Rick Mehl Title: Project Manager Task(s): All Certification Level or Description: <input checked="" type="checkbox"/> Medical Current <input checked="" type="checkbox"/> Training Current <input type="checkbox"/> Fit Test Current (Qual.) <input checked="" type="checkbox"/> Fit Test Current (Quant.)	Name: Tim Walls Title: Project Geoscientist Task(s): All Certification Level or Description: <input checked="" type="checkbox"/> Medical Current <input checked="" type="checkbox"/> Training Current <input type="checkbox"/> Fit Test Current (Qual.) <input checked="" type="checkbox"/> Fit Test Current (Quant.)
Name: Title: Task(s): Certification Level or Description: <input type="checkbox"/> Medical Current <input type="checkbox"/> Training Current <input type="checkbox"/> Fit Test Current (Qual.) <input type="checkbox"/> Fit Test Current (Quant.)	Name: Title: Task(s): Certification Level or Description: <input type="checkbox"/> Medical Current <input type="checkbox"/> Training Current <input type="checkbox"/> Fit Test Current (Qual.) <input type="checkbox"/> Fit Test Current (Quant.)
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TRAINING CURRENT - Training: All personnel, including visitors, entering the exclusion or contamination reduction zones must have certifications of completion of training in accordance with OSHA 29 CFR 1910, 29 CFR 1926, or 29 CFR 1910.120.

FIT TEST CURRENT - Respirator Fit Testing: All persons, including visitors, entering any area requiring the use or potential use of any tight-fitting respirator must have had, as a minimum, a qualitative fit test, administered in accordance with OSHA 29 CFR 1910.134 or ANSI, within the last 12 months. If site conditions require the use of a full-face, tight-fitting, air-purifying respirator for protection from asbestos or lead, employees must have had a quantitative fit test, administered according to OSHA 29 CFR 1910.1001 or .1025 or 29 CFR 1926.1101 or .62, within the last 12 months.

MEDICAL CURRENT - Medical Monitoring Requirements: All personnel, including visitors, entering the exclusion or contamination reduction zones must be certified as medically fit to work and able to wear a respirator, if appropriate, in accordance with 29 CFR 1910 or 29 CFR 1926 (substance-specific), or 29 CFR 1910.120 (HAZWOPER).

The Site Field Safety Officer is responsible for verifying all certifications and fit tests.

SITE PERSONNEL AND CERTIFICATION STATUS		
1.3.2 Subcontractor's Health and Safety Program Evaluation		
Name of Subcontractor: TBD Address:		
Activities To Be Conducted by Subcontractor:		
Evaluation Criteria		
Medical Program meets OSHA/WESTON criteria <input type="checkbox"/> Acceptable <input type="checkbox"/> Unacceptable Comments:	Personal Protective Equipment available <input type="checkbox"/> Acceptable <input type="checkbox"/> Unacceptable Comments:	On-site monitoring equipment available, calibrated, and operated properly <input type="checkbox"/> Acceptable <input type="checkbox"/> Unacceptable Comments:
Safe Working Procedures clearly specified <input type="checkbox"/> Acceptable <input type="checkbox"/> Unacceptable Comments:	Training meets OSHA/WESTON criteria <input type="checkbox"/> Acceptable <input type="checkbox"/> Unacceptable Comments:	Emergency Procedures <input type="checkbox"/> Acceptable <input type="checkbox"/> Unacceptable Comments:
Decontamination Procedures <input type="checkbox"/> Acceptable <input type="checkbox"/> Unacceptable Comments:	General Health and Safety Program evaluation <input type="checkbox"/> Acceptable <input type="checkbox"/> Unacceptable Comments:	Additional comments: <input type="checkbox"/> Subcontractor has agreed to and will conform to the WESTON HASP for this project. <input type="checkbox"/> Subcontractor will work under its own HASP, which has been accepted by Project PM.
Evaluation Conducted by:		Date:
Evaluation Source (SubTrack, etc.):		
Subcontractor		
Certifications for all subcontractor personnel will be added to the HASP prior to beginning work.		
Name: Title: Task(s): Certification Level or Description: <input type="checkbox"/> Medical Current <input type="checkbox"/> Training Current <input type="checkbox"/> Fit Test Current (Qual.) <input type="checkbox"/> Fit Test Current (Quant.)	Name: Title: Task(s): Certification Level or Description: <input type="checkbox"/> Medical Current <input type="checkbox"/> Training Current <input type="checkbox"/> Fit Test Current (Qual.) <input type="checkbox"/> Fit Test Current (Quant.)	
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2. HEALTH AND SAFETY EVALUATION

2.1 HEALTH AND SAFETY EVALUATION

2.1.1 Task Hazard Assessment

Background Review: ☐ Complete ☐ Partial If partial why?

Activities Covered Under This Plan:

No.	Task/Subtask	Description	Schedule
1	Waste Sampling	Collection of waste samples (composite) from drummed material	12/12/13
2	Waste Staging, wipe sampling, waste disposal (offsite)	Collection of wipe samples from outside of drums, restaging drums on polysheeting near site gate, loading of drums by subcontractor using truck lift gate	TBD
3	Air Sampling	Placement and retrieval of two RadTrak samplers at two separate buildings (residential and commercial) located adjacent to the NPL-11 site.	12/12/13

Types of Hazards:

Numbers refer to one of the following hazard evaluation forms. Complete hazard evaluation forms for each appropriate hazard class.

Physiochemical 1

- ☐ Flammable
☐ Explosive
☐ Corrosive
☐ Reactive
☐ O₂ Rich
☐ O₂ Deficient

Chemically Toxic 1

- ☒ Inhalation ☒ Carcinogen
☒ Ingestion ☐ Mutagen
☒ Contact ☐ Teratogen
☒ Absorption
☒ OSHA 1910.1000 Substance (Air Contaminants)
☒ OSHA Specific Hazard Substance Standard (Refer to following page for listing)

Radiation 3

- Ionizing:
☒ Internal exposure
☒ External exposure

 Non-ionizing:
☒ UV ☐ IR
☐ RF ☐ MicroW
☐ Laser

Biological 2

- ☐ Etiological Agent
☐ Other (plant, insect, animal)

Physical Hazards 4

- ☐ Construction Activities

Source/Location of Contaminants and Hazardous Substances:

Directly Related to Tasks

- ☒ Air
☒ Other Surface
☐ Groundwater
☒ Soil
☐ Surface Water
☐ Sanitary Wastewater
☐ Process Wastewater
☐ Other _____

Indirectly Related to Tasks — Nearby Process(es) That Could Affect Team Members:

- ☐ Client Facility/WESTON Work Location
☐ Nearby Non-Client Facility

Describe:

- ☐ Have activities (task[s]) been coordinated with facility?

Comments: **Air sampling has been coordinated with the resident and commercial business owner**

HEALTH AND SAFETY EVALUATION

2.1.2 Chemical Hazards of Concern

☐ N/A

Chemical Contaminants of Concern

Attach data sheets from an acceptable source such as NIOSH pocket guide, condensed chemical dictionary, ACGIH TLV booklet, Hazardous Substances Data base (HSDB), etc. List chemicals and concentrations below and locate data sheets in Attachment A of this HASP.

☐ N/A

Identify hazardous materials used or on-site and attach Safety Data Sheets (SDSs) for all reagent type chemicals, solutions, or other identified materials that in normal use in performing tasks related to this project could produce hazardous substances. Ensure that all subcontractors and other parties working nearby are informed of the presence of these chemicals and the location of the SDSs. Obtain from subcontractors and other parties, lists of the hazardous materials they use or have on-site and identify location of the SDSs here. List chemicals and quantities below and locate SDSs in Attachment B of this HASP.

Chemical Name	Concentration ()	Chemical Name	Quantity
Radium-226	0-884 pCi/g (soil) 0-25.5 pCi/L (gw)		
Antimony	0-48.7 mg/kg (soil)		
Arsenic	0-56.3 mg/kg (soil)		
Beryllium	0-7.0 mg/kg (soil)		
Iron	0-60,600 mg/kg (soil)		
Lead	0-1,620 mg/kg (soil)		
Manganese	0-630 mg/kg (soil)		

OSHA-SPECIFIC HAZARDOUS SUBSTANCES

<input type="checkbox"/> 1910.1001 Asbestos	<input type="checkbox"/> 1910.1002 Coal tar pitch volatiles	<input type="checkbox"/> 1910.1003 4-Nitrobiphenyl, etc.	<input type="checkbox"/> 1910.1004 alpha-Naphthylamine
<input type="checkbox"/> 1910.1005 [Reserved]	<input type="checkbox"/> 1910.1006 Methyl chloromethyl ether	<input type="checkbox"/> 1910.1007 3,3'-Dichlorobenzidine (and its salts)	<input type="checkbox"/> 1910.1008 bis-Chloromethyl ether
<input type="checkbox"/> 1910.1009 beta-Naphthylamine	<input type="checkbox"/> 1910.1010 Benzidine	<input type="checkbox"/> 1910.1011 4-Aminodiphenyl	<input type="checkbox"/> 1910.1012 Ethyleneimine
<input type="checkbox"/> 1910.1013 beta-Propiolactone	<input type="checkbox"/> 1910.1014 2-Acetylaminofluorene	<input type="checkbox"/> 1910.1015 4-Dimethylaminoazobenzene	<input type="checkbox"/> 1910.1016 N-Nitrosodimethylamine
<input type="checkbox"/> 1910.1017 Vinyl chloride	<input checked="" type="checkbox"/> 1910.1018 Inorganic arsenic	<input checked="" type="checkbox"/> 1910.1025 Lead (Att. FLD# 46)	<input type="checkbox"/> 1910.1026 Chromium VI (att. FLD 53)
<input type="checkbox"/> 1910.1027 Cadmium (Att. 50 FLD)	<input type="checkbox"/> 1910.1028 Benzene (Att. FLD# 54 or 61)	<input type="checkbox"/> 1910.1029 Coke oven emissions	<input type="checkbox"/> 1910.1043 Cotton dust
<input type="checkbox"/> 1910.1044 1,2-Dibromo-3-chloropropane	<input type="checkbox"/> 1910.1045 Acrylonitrile	<input type="checkbox"/> 1910.1047 Ethylene oxide	<input type="checkbox"/> 1910.1048 Formaldehyde
<input type="checkbox"/> 1910.1050 Methylenedianiline	<input type="checkbox"/> 1910.1051 1,3 Butadiene	<input type="checkbox"/> 1910.1052 Methylene chloride	<input type="checkbox"/> 1926.60 Methylenedianiline
<input type="checkbox"/> 1926.62 Lead	<input type="checkbox"/> 1926.1101 Asbestos (Att. FLD 52)	<input type="checkbox"/> 1926.1127 Cadmium	

HEALTH AND SAFETY EVALUATION

2.1.3 Biological Hazards of Concern

<input checked="" type="checkbox"/> Poisonous Plants (FLD 43-D) Location/Task No(s) All Source: <input type="checkbox"/> Known <input checked="" type="checkbox"/> Suspect Route of Exposure: <input type="checkbox"/> Inhalation <input type="checkbox"/> Ingestion <input checked="" type="checkbox"/> Contact <input type="checkbox"/> Direct Penetration Team Member(s) Allergic: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Immunization required: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Insects (FLD 43-B) Location/Task No(s) Source: <input type="checkbox"/> Known <input type="checkbox"/> Suspect Route of Exposure: <input type="checkbox"/> Inhalation <input type="checkbox"/> Ingestion <input type="checkbox"/> Contact <input type="checkbox"/> Direct Penetration Team Member(s) Allergic: <input type="checkbox"/> Yes <input type="checkbox"/> No Immunization required: <input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Snakes, Reptiles (FLD 43-A) Location/Task No(s) Source: <input type="checkbox"/> Known <input type="checkbox"/> Suspect Route of Exposure: <input type="checkbox"/> Inhalation <input type="checkbox"/> Ingestion <input type="checkbox"/> Contact <input type="checkbox"/> Direct Penetration Team Member(s) Allergic: <input type="checkbox"/> Yes <input type="checkbox"/> No Immunization required: <input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Animals (FLD 43-A) Location/Task No(s) All Source: <input type="checkbox"/> Known <input checked="" type="checkbox"/> Suspect Route of Exposure: <input type="checkbox"/> Inhalation <input type="checkbox"/> Ingestion <input checked="" type="checkbox"/> Contact <input type="checkbox"/> Direct Penetration Team Member(s) Allergic: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Immunization required: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
FLD 43 — WESTON Biohazard Field Operating Procedures: Att. OP <input checked="" type="checkbox"/>	
<input type="checkbox"/> Sewage Location/Task No.(s): Source: <input type="checkbox"/> Known <input type="checkbox"/> Suspect Route of Exposure: <input type="checkbox"/> Inhalation <input type="checkbox"/> Ingestion <input type="checkbox"/> Contact <input type="checkbox"/> Direct Penetration Team Member(s) Allergic: <input type="checkbox"/> Yes <input type="checkbox"/> No Immunization required: <input type="checkbox"/> Yes <input type="checkbox"/> No Tetanus Vaccination within Past 10 yrs: <input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Etiologic Agents (FLD -C)(List) Location/Task No.(s): Source: <input type="checkbox"/> Known <input type="checkbox"/> Suspect Route of Exposure: <input type="checkbox"/> Inhalation <input type="checkbox"/> Ingestion <input type="checkbox"/> Contact <input type="checkbox"/> Direct Penetration Team Member(s) Allergic: <input type="checkbox"/> Yes <input type="checkbox"/> No Immunization required: <input type="checkbox"/> Yes <input type="checkbox"/> No
FLD 43-C — Mold and Fungus. Att. OP <input type="checkbox"/>	
FLD 44 — WESTON Bloodborne Pathogens Exposure Control Plan – First Aid Procedures: Att. OP <input checked="" type="checkbox"/>	
FLD 45 — WESTON Bloodborne Pathogens Exposure Control Plan – Working with Infectious Waste: Att. OP <input type="checkbox"/>	

HEALTH AND SAFETY EVALUATION								
2.1.4 Radiation Hazards of Concern								
NONIONIZING RADIATION								
Task No.	Type of Nonionizing Radiation	Source On-Site	TLV/PEL	Wavelength Range	Control Measures	Monitoring Instrument		
All	Ultraviolet	Solar		2920-4000	Appropriate clothing/ sunscreen	None		
	Infrared							
	Radio Frequency							
	Microwave							
	Laser							
IONIZING RADIATION								
Task No.	Radionuclide	Major Radiations	Radioactive Half-Life (Years)	DAC (µCi/mL)			Surface Contamination Limit	Monitoring Instrument
				D	W	Y		
All	Radium-226	alpha	1,600		3x10 ⁻¹⁰		100 dpm/100cm ² avg (removable) 300 dpm/100cm ² max (fixed)	alpha probe alpha probe

HEALTH AND SAFETY EVALUATION

2.1.5 Physical Hazards of Concern (Note: Check related RAVS-FLDs for Oil & Gas Clients)

Physical Hazard Condition	Physical Hazard	Attach OP	WESTON OP Titles
Loud noise	Hearing loss/disruption of communication	<input checked="" type="checkbox"/>	Section 7.0 - ECH&S Program Manual Occupational Noise & HC Program
Inclement weather	Rain/humidity/cold/ice/snow/lightning	<input checked="" type="checkbox"/>	FLD02 - Inclement Weather
Steam heat stress	Burns/displaced oxygen/wet working surfaces	<input type="checkbox"/>	FLD03 - Hot Process - Steam
Heat stress	Burns/hot surfaces/low pressure steam	<input type="checkbox"/>	FLD04 - Hot Process - LT3
Ambient heat stress	Heat rash/cramps/exhaustion/heat stroke	<input type="checkbox"/>	FLD05 - Heat Stress Prevention/Monitoring
Cold stress	Hypothermia/frostbite	<input checked="" type="checkbox"/>	FLD06 - Cold Stress
Cold/wet	Trench/paddy/immersion foot/edema	<input checked="" type="checkbox"/>	FLD02 - Inclement Weather
Confined spaces	Falls/burns/drowning/engulfment/electrocution	<input type="checkbox"/>	FLD08 - Confined Space Entry
Industrial Trucks	Fork Lift Truck Safety	<input type="checkbox"/>	FLD09 - Powered Industrial Trucks
Improper lifting	Back strain/abdomen/arm/leg muscle/joint injury	<input checked="" type="checkbox"/>	FLD10 - Manual Lifting/Handling Heavy Objects
Uneven surfaces	Vehicle accidents/slips/trips/falls	<input checked="" type="checkbox"/>	FLD11 - Rough Terrain
Poor housekeeping	Slips/trips/falls/punctures/cuts/fires	<input checked="" type="checkbox"/>	FLD12 - Housekeeping
Structural integrity	Crushing/overhead hazards/compromised floors	<input type="checkbox"/>	FLD13 - Structural Integrity
Improper cylinder. handling	Mechanical injury/fire/explosion/suffocation	<input type="checkbox"/>	FLD16 - Pressure Systems - Compressed Gases
Water hazards	Poor visibility/entanglement/drowning/cold stress	<input type="checkbox"/>	FLD17 - Diving
Water hazards	Drowning/heat/cold stress/hypothermia/falls	<input type="checkbox"/>	FLD18 - Operation and Use of Boats
Water hazards	Drowning/frostbite/hypothermia/falls/electrocution	<input type="checkbox"/>	FLD19 - Working Over Water
Vehicle hazards	Struck by vehicle/collision	<input checked="" type="checkbox"/>	FLD20 - Traffic
Explosions	Explosion/fire/thermal burns	<input type="checkbox"/>	FLD21 - Explosives
Moving mechanical parts	Crushing/pinch points/overhead hazards/electrocution	<input type="checkbox"/>	FLD22 - Earth Moving Equipment
Moving mech. parts	Overhead hazards/electrocution	<input type="checkbox"/>	FLD23 - Cranes, Rigging, and Slings
Working at elevation	Overhead hazards/falls/electrocution	<input type="checkbox"/>	FLD24 - Aerial Lifts/Man lifts
Working at elevation	Overhead hazards/falls/electrocution	<input type="checkbox"/>	FLD25 - Working at Elevation
Working at elevation	Overhead hazards/falls/electrocution/slips	<input type="checkbox"/>	FLD26 - Ladders
Working at elevation	Slips/trips/falls/overhead hazards	<input type="checkbox"/>	FLD27 - Scaffolding
Trench cave-in	Crushing/falling/overhead hazards/suffocation	<input type="checkbox"/>	FLD28 - Excavating/Trenching
Physiochemical	Explosions/fires from oxidizing, flam./corr. material	<input type="checkbox"/>	FLD30 - Hazardous Materials Use/Storage
Physiochemical	Fire and explosion	<input type="checkbox"/>	FLD31 - Fire Prevention/Response Plan Required
Physiochemical	Fire	<input type="checkbox"/>	FLD32 - Fire Extinguishers Required
Structural integrity	Overhead/electrocution/slips/trips/falls/fire	<input type="checkbox"/>	FLD33 - Demolition
Electrical	Electrocution/shock/thermal burns	<input type="checkbox"/>	FLD34 - Utilities
Electrical	Electrocution/shock/thermal burns	<input type="checkbox"/>	FLD35 - Electrical Safety
Burns/fires	Heat stress/fires/burns	<input type="checkbox"/>	FLD36 - Welding/Cutting/Brazing/Radiography
Impact/thermal	Thermal burns/high pressure impaction/heat stress	<input type="checkbox"/>	FLD37 - Pressure Washers/Sand Blasting
Impaction/electrical	Smashing body parts/pinching/cuts/electrocution	<input checked="" type="checkbox"/>	FLD38 - Hand and Power Tools
Poor visibility	Slips/trips/falls	<input checked="" type="checkbox"/>	FLD39 - Illumination
Fire/explosion	Burns/impaction	<input type="checkbox"/>	FLD40 - Storage Tank Removal/Decommissioning
Communications	Disruption of communications	<input type="checkbox"/>	FLD41 - Std. Hand/Emergency Signals
Energy/release	Unexpected release of energy	<input type="checkbox"/>	FLD42 - Lockout/Tag-out
Biological Hazards	Biological Hazards at site	<input type="checkbox"/>	FLD43 - Biological Hazards
Animals	Animals	<input checked="" type="checkbox"/>	FLD43A - Animals
Insects	Stinging and Biting Insects	<input type="checkbox"/>	FLD43B - Stinging and Biting Insects
Molds/Fungi	Molds and Fungi	<input type="checkbox"/>	FLD43C - Molds and Fungi
Hazardous Plants	Hazardous Plants	<input checked="" type="checkbox"/>	FLD43D - Hazardous Plants
Etiologic Agents	Etiologic Agents	<input type="checkbox"/>	FLD43E - Etiologic Agents

2.1.5 Physical Hazards of Concern (Continued)

Physical Hazard Condition	Physical Hazard	Attach OP	WESTON OP Titles
Biological Hazards/BBP	Biological Hazards/BBP at site/First Aid Providers	<input checked="" type="checkbox"/>	FLD44 - Biological Hazards – Bloodborne Pathogens Exposure Control Plan – First Aid Providers
Infectious Waste	Infectious Waste at site/BBP/ at site/Infectious Waste	<input type="checkbox"/>	FLD45 – Biological Hazards – Bloodborne Pathogens Exposure Control Plan – Work With Infectious Waste
Lead Contaminated sites	Lead poisoning	<input type="checkbox"/>	FLD46 - Control of Exposure to Lead
Puncture/cuts	Cuts/ dismemberment/gouges	<input checked="" type="checkbox"/>	FLD47 - Clearing, Grubbing and Logging Operations
Government Inspector	Disruption of Operations	<input type="checkbox"/>	FLD48 – Federal, State, Local Regulatory Agency Inspections
Unknown Chemicals	Exposure to hazardous materials/waste	<input checked="" type="checkbox"/>	FLD49 – Safe Storage of Samples
Cadmium	Exposure Control	<input type="checkbox"/>	FLD50 – Cadmium Exposure Control Plan
Process Safety Procedure	Safety Procedure	<input type="checkbox"/>	FLD51 – Process Safety Procedure
Asbestos	Asbestos Exposure	<input type="checkbox"/>	FLD52 – Asbestos Exposure Control Plan
Hexavalent Chromium	Exposure Control Plan	<input type="checkbox"/>	FLD53 – Hexavalent Chromium Exposure Control Plan
Benzene	Exposure Control Plan	<input type="checkbox"/>	FLD54 - <u>Benzene Exposure Control Plan</u>
Hydrofluoric acid	Working with HF	<input type="checkbox"/>	FLD55 – Working with Hydrofluoric Acid
Moving drill rig parts	Crushing/pinch points/overhead hazards/electrocution	<input type="checkbox"/>	FLD56 – Drilling Safety
Vehicles/driving	Accidents,/fatigue/cell phone use	<input checked="" type="checkbox"/>	FLD 57 – Motor Vehicle Safety
Improper material handling	Back injury/crushing from load shifts/equipment/tools	<input checked="" type="checkbox"/>	FLD 58 – Drum Handling Operations
COC decontamination	COCs/slip, trip, and falls/waste generation/environmental compliance/PPE	<input checked="" type="checkbox"/>	FLD59 - Decontamination
Drilling hazards	Electrocution/overhead hazards/pinch points	<input type="checkbox"/>	Environmental Remediation Drilling Safety Guideline - 2005
Fatigue	Long work hours	<input type="checkbox"/>	FLD60 – Employee Duty Schedule
Benzene/Gasoline	Benzene exposure	<input checked="" type="checkbox"/>	FLD61 – Gasoline Contaminant Exposure
Cardiac Arrest	Accident/Heart Attack	<input type="checkbox"/>	FLD62 – 2009 Automatic External Defibrillator (AED) Program Guidelines
Ionizing Radiation	Ionizing Radiation	<input type="checkbox"/>	FLD63 – Using Handheld X-Ray Fluorescence (XRF) Analyzers
Working Alone	Isolated Working Conditions	<input checked="" type="checkbox"/>	FLD64 – Employees Working Alone

3. SITE SECURITY

3.1 SITE SECURITY ASSESSMENT FORM

DESCRIPTION	
Site Name and Location: Ottawa Radiation Area OU2, NPL-4 (Ottawa, IL)	Number of Employees and Subcontractors on Site: WESTON (2) / TBD
Type of Work: Inspect staged drums, sample material currently staged in drums, wipe down drums and restage on polysheeting, have drums loaded for offsite disposal, and placement and retrieval of radon detectors in residential home and commercial business	
Projected Start Date: 12/12/13	Projected Completion Date: TBD
Are Chemicals Used or Stored That Meet DHS/CFATS Requirements? http://www.dhs.gov/files/programs/gc_1185909570187.shtm	
If Yes, Attach Plan and DHS Approvals to HASP. http://www.dhs.gov/files/programs/gc_1169501486197.shtm	
SURROUNDING AREA (<i>urban/suburban/rural; residential/commercial/industrial; traffic volume, population density, etc</i>) Residential and commercial	
THREAT INDICATORS (<i>apparent social, economic, political, ethnic, criminal, gang related, and other risk factors</i>) None	
COUNTERMEASURES (<i>Current and projected risk mitigation factors</i>)	
Security Systems (Reference Site Security Checklist): NPL-4 Site is fenced.	
Security Procedures (Reference Site Security Checklist): None in place and not considered necessary	
Closest police station location and contact information: 301 West Lafayette Street Ottawa, IL 61350-2077	
Other relevant observations or information to factor into the Site Security Plan: NA	
OVERALL SECURITY ASSESSMENT (<i>Submit "Medium" and "High" risk assessments to Corporate Security for review</i>)	
Risk Level: <input checked="" type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High	Date: 12/9/13
Site Safety Officer: Tim Walls	Division Safety Manager: Ted Deecke
USE ATTACHMENTS FOR ADDITIONAL COMMENTS, MAPS AND DIAGRAMS	

3.2 WESTON SITE SECURITY CHECKLIST

*To be used for completing the Site Security Assessment Form required on all WESTON projects.
Contact Corporate Security for guidance on any items that are "NEEDED" and "NOT IN PLACE".*

CONTROL MEASURES:	In-Place / Not In-Place	Needed / Not Needed
1. Fencing, lockable gates, no holes (enter details below):	<input checked="" type="checkbox"/> / <input type="checkbox"/>	<input type="checkbox"/> / <input type="checkbox"/>
a. Chain Link material	<input checked="" type="checkbox"/> / <input type="checkbox"/>	<input type="checkbox"/> / <input type="checkbox"/>
b. Other material (describe)	<input type="checkbox"/> / <input type="checkbox"/>	<input type="checkbox"/> / <input type="checkbox"/>
c. Height (in feet and inches)	<input type="checkbox"/> / <input type="checkbox"/>	<input type="checkbox"/> / <input type="checkbox"/>
d. Top cover (e.g., razor wire)	<input type="checkbox"/> / <input type="checkbox"/>	<input type="checkbox"/> / <input type="checkbox"/>
e. Signage (e.g., No Trespassing)	<input checked="" type="checkbox"/> / <input type="checkbox"/>	<input type="checkbox"/> / <input type="checkbox"/>
2. Guard service:	<input type="checkbox"/> / <input type="checkbox"/>	<input type="checkbox"/> / <input checked="" type="checkbox"/>
a. During working hours?	<input type="checkbox"/> / <input type="checkbox"/>	<input type="checkbox"/> / <input type="checkbox"/>
b. During non-working hours?	<input type="checkbox"/> / <input type="checkbox"/>	<input type="checkbox"/> / <input type="checkbox"/>
c. As a stationary post?	<input type="checkbox"/> / <input type="checkbox"/>	<input type="checkbox"/> / <input type="checkbox"/>
d. As a roving patrol?	<input type="checkbox"/> / <input type="checkbox"/>	<input type="checkbox"/> / <input type="checkbox"/>
e. Do they have written instructions?	<input type="checkbox"/> / <input type="checkbox"/>	<input type="checkbox"/> / <input type="checkbox"/>
f. Do they have adequate training?	<input type="checkbox"/> / <input type="checkbox"/>	<input type="checkbox"/> / <input type="checkbox"/>
g. Do they have adequate supervision?	<input type="checkbox"/> / <input type="checkbox"/>	<input type="checkbox"/> / <input type="checkbox"/>
h. Do they have daily reports?	<input type="checkbox"/> / <input type="checkbox"/>	<input type="checkbox"/> / <input type="checkbox"/>
i. Do they have daily inspections?	<input type="checkbox"/> / <input type="checkbox"/>	<input type="checkbox"/> / <input type="checkbox"/>
3. ID badges displayed by:	<input type="checkbox"/> / <input type="checkbox"/>	<input type="checkbox"/> / <input checked="" type="checkbox"/>
a. Employees?	<input type="checkbox"/> / <input type="checkbox"/>	<input type="checkbox"/> / <input type="checkbox"/>
b. Contractors?	<input type="checkbox"/> / <input type="checkbox"/>	<input type="checkbox"/> / <input type="checkbox"/>
c. Visitors?	<input type="checkbox"/> / <input type="checkbox"/>	<input type="checkbox"/> / <input type="checkbox"/>
4. Log books for:	<input type="checkbox"/> / <input type="checkbox"/>	<input type="checkbox"/> / <input checked="" type="checkbox"/>
a. Employee sign-in?	<input type="checkbox"/> / <input type="checkbox"/>	<input type="checkbox"/> / <input type="checkbox"/>
b. Visitor sign-in?	<input type="checkbox"/> / <input type="checkbox"/>	<input type="checkbox"/> / <input type="checkbox"/>
c. Vehicle sign-in?	<input type="checkbox"/> / <input type="checkbox"/>	<input type="checkbox"/> / <input type="checkbox"/>
d. Incident reports?	<input type="checkbox"/> / <input type="checkbox"/>	<input type="checkbox"/> / <input type="checkbox"/>
e. Property removal?	<input type="checkbox"/> / <input type="checkbox"/>	<input type="checkbox"/> / <input type="checkbox"/>
f. Keys and access cards?	<input type="checkbox"/> / <input type="checkbox"/>	<input type="checkbox"/> / <input type="checkbox"/>
5. Electronics and hardware options (enter details below):	<input type="checkbox"/> / <input type="checkbox"/>	<input type="checkbox"/> / <input checked="" type="checkbox"/>
a. Access card readers	<input type="checkbox"/> / <input type="checkbox"/>	<input type="checkbox"/> / <input type="checkbox"/>
b. Adequate lighting	<input type="checkbox"/> / <input type="checkbox"/>	<input type="checkbox"/> / <input type="checkbox"/>
c. Closed circuit TV	<input type="checkbox"/> / <input type="checkbox"/>	<input type="checkbox"/> / <input type="checkbox"/>
d. Alarm system	<input type="checkbox"/> / <input type="checkbox"/>	<input type="checkbox"/> / <input type="checkbox"/>
e. Other (describe)	<input type="checkbox"/> / <input type="checkbox"/>	<input type="checkbox"/> / <input type="checkbox"/>
6. Procedures documented for:	<input type="checkbox"/> / <input type="checkbox"/>	<input type="checkbox"/> / <input checked="" type="checkbox"/>
a. Security training?	<input type="checkbox"/> / <input type="checkbox"/>	<input type="checkbox"/> / <input type="checkbox"/>
b. Security instructions?	<input type="checkbox"/> / <input type="checkbox"/>	<input type="checkbox"/> / <input type="checkbox"/>
c. Contingency plans?	<input type="checkbox"/> / <input type="checkbox"/>	<input type="checkbox"/> / <input type="checkbox"/>
d. Opening and closing protocols?	<input type="checkbox"/> / <input type="checkbox"/>	<input type="checkbox"/> / <input type="checkbox"/>
e. Other (describe)?	<input type="checkbox"/> / <input type="checkbox"/>	<input type="checkbox"/> / <input type="checkbox"/>
7. Law enforcement liaison documented for:	<input type="checkbox"/> / <input type="checkbox"/>	<input type="checkbox"/> / <input checked="" type="checkbox"/>
a. Municipal police?	<input type="checkbox"/> / <input type="checkbox"/>	<input type="checkbox"/> / <input type="checkbox"/>
b. County sheriff?	<input type="checkbox"/> / <input type="checkbox"/>	<input type="checkbox"/> / <input type="checkbox"/>
c. State police?	<input type="checkbox"/> / <input type="checkbox"/>	<input type="checkbox"/> / <input type="checkbox"/>
d. Federal agencies (specify)?	<input type="checkbox"/> / <input type="checkbox"/>	<input type="checkbox"/> / <input type="checkbox"/>

WESTON SITE SECURITY CHECKLIST (CONTINUED)

*To be used for completing the Site Security Assessment Form required on all WESTON projects.
Contact Corporate Security for guidance on any items that are "NEEDED" and "NOT IN PLACE".*

CHAIN OF COMMAND:	Name	24/7 Contact Information
a. Site Security Coordinator	Tim Walls	847-849-9033
b. Site Supervisor	Tim Walls	847-849-9033
c. Project Manager	Rick Mehl	847-254-6981
d. PC Manager	Sally Bartz	517-881-5264

REMARKS (use this section and supplemental pages to comment on details, exceptions or additional observations):

4. TASK BY TASK ASSESSMENT

4.1 TASK-BY-TASK RISK ASSESSMENT

4.1.1 Task 1 Description

TASK 1: Collection of waste samples (composite) from drummed material

EQUIPMENT REQUIRED/USED

Logbook	Safety glasses	High Visibility Vest	Hammer
Camera		Scoops	Chisel
Hard hat	Micro-R Meter	Nitrile gloves	Drum Ratchet
Steel-toe boots			
Id badge			

POTENTIAL HAZARDS/RISKS

Chemical

☒ Hazard Present Risk Level: ☐ H ☐ M ☒ L

What justifies risk level?

There is minimal exposure to contamination while waste sampling. Proper PPE will mitigate risk. Personnel will screen hands and feet prior to leaving the drum area.

Physical

☒ Hazard Present Risk Level: ☐ H ☐ M ☒ L

What justifies risk level?

Slips/trips/falls are the greatest risk factor especially due to snow covered/icy ground and potential overgrowth. Caution and proper tools will be used to mitigate any risk. Personnel will monitor inclement weather and cold stress and stay hydrated. Personnel will use caution when mobilizing to and from the site.

Biological

☒ Hazard Present Risk Level: ☐ H ☐ M ☒ L

What justifies risk level?

Plants, and animals are expected to be of minimal threat, due to time of year. General awareness/avoidance and required PPE should address the hazards. Also refer to FLD 43A, 43B, 43C, 43D, and 43E Biological Hazards. If allergies are a factor, be aware of the surroundings and plant/animal life.

RADIOLOGICAL

☒ Hazard Present Risk Level: ☐ H ☐ M ☒ L

What justifies risk level?

All instrumentation and personnel will be frisked to determine any removable contamination.

LEVELS OF PROTECTION/JUSTIFICATION

Level D

SAFETY PROCEDURES REQUIRED AND/OR FIELD OPS UTILIZED

All work will be performed in accordance with the provisions of this HASP, OSHA guidelines, and WESTON Standard Operating Procedures.

TASK-BY-TASK RISK ASSESSMENT (Continued)

4.1.2 Task 2 Description

TASK 2: Collection of wipe samples from outside of drums, restaging drums on polysheeting near site gate, loading of drums by subcontractor using truck lift gate

EQUIPMENT REQUIRED/USED

Logbook	Safety glasses	High Visiblity Vest	Poly-sheeting
Camera	GM Pancake	Leather gloves	Scissors
Hard hat	Micro-R Meter	Nitrile gloves	
Steel-toe boots			
TLD badge			

POTENTIAL HAZARDS/RISKS

Chemical

☒ Hazard Present Risk Level: ☐ H ☐ M ☒ L
 What justifies risk level?
There is minimal exposure to contamination while waste staging. Proper PPE and air monitoring/sampling will mitigate risk.

Physical

☒ Hazard Present Risk Level: ☐ H ☐ M ☒ L
 What justifies risk level?
Working around drums is the greatest risk factor. Caution and proper tools will be used to mitigate any risk. Personnel will watch for slip/trip/fall hazards, inclement weather and monitor for cold stress. The drums have been in the elements for a number of years so personnel will check integrity of the drums and use proper lifting techniques when getting drums onto dollies/lift gates or other ways to move drums

Biological

☒ Hazard Present Risk Level: ☐ H ☐ M ☒ L
 What justifies risk level?
Plants, and animals are expected to be of minimal threat due to the time of year.. General awareness/avoidance and required PPE should address the hazards. Also refer to FLD 43A, 43B, 43C, 43D, and 43E Biological Hazards. If allergies are a factor, be aware of the surroundings and plant/animal life.

RADIOLOGICAL

☒ Hazard Present Risk Level: ☐ H ☐ M ☒ L
 What justifies risk level?
All instrumentation and personell will be frisked to determine any removable contamination.

LEVELS OF PROTECTION/JUSTIFICATION

Level D

SAFETY PROCEDURES REQUIRED AND/OR FIELD OPS UTILIZED

All work will be performed in accordance with the provisions of this HASP, OSHA guidelines, and WESTON Standard Operating Procedures.

4.1 TASK-BY-TASK RISK ASSESSMENT (Continued)

4.1.3 Task 3 Description

TASK 3: Placement and retrieval of RadTrak samplers at two separate buildings (residential and commercial) located adjacent to the site.

EQUIPMENT REQUIRED/USED

Logbook	Safety glasses	High Visibility Vest
Camera		RadTrak samplers
Hard hat	Micro-R Meter	
Steel-toe boots		
Tld badge		

POTENTIAL HAZARDS/RISKS

Chemical

☒ Hazard Present Risk Level: ☐ H ☐ M ☒ L

What justifies risk level?

There is minimal exposure to contamination while placing samplers. Proper PPE will mitigate risk.

Physical

☒ Hazard Present Risk Level: ☐ H ☐ M ☒ L

What justifies risk level?

Slips/trips/falls are the greatest risk factor. Caution and proper tools will be used to mitigate any risk. Personnel will make sure there are no animal threats at the residence and make sure the residence is safe to enter.

Biological

☒ Hazard Present Risk Level: ☐ H ☐ M ☒ L

What justifies risk level?

Plants, and animals are expected to be of minimal threat. General awareness/avoidance and required PPE should address the hazards. Also refer to FLD 43A, 43B, 43C, 43D, and 43E Biological Hazards. If allergies are a factor, be aware of the surroundings and plant/animal life.

RADIOLOGICAL

☒ Hazard Present Risk Level: ☐ H ☐ M ☒ L

What justifies risk level?

All instrumentation and personnel will be frisked to determine any removable contamination.

LEVELS OF PROTECTION/JUSTIFICATION

Level D

SAFETY PROCEDURES REQUIRED AND/OR FIELD OPS UTILIZED

All work will be performed in accordance with the provisions of this HASP, OSHA guidelines, and WESTON Standard Operating Procedures.

4.1 TASK-BY-TASK RISK ASSESSMENT (Continued)

4.1.4 Task 4 Description

TASK 4:

EQUIPMENT REQUIRED/USED

POTENTIAL HAZARDS/RISKS

Chemical

☐ Hazard Present Risk Level: ☐ H ☐ M ☐ L
What justifies risk level?

Physical

☐ Hazard Present Risk Level: ☐ H ☐ M ☐ L
What justifies risk level?

Biological

☐ Hazard Present Risk Level: ☐ H ☐ M ☐ L
What justifies risk level?

RADIOLOGICAL

☐ Hazard Present Risk Level: ☐ H ☐ M ☐ L
What justifies risk level?

LEVELS OF PROTECTION/JUSTIFICATION

SAFETY PROCEDURES REQUIRED AND/OR FIELD OPS UTILIZED

All work will be performed in accordance with the provisions of this HASP, OSHA guidelines, and WESTON Standard Operating Procedures.

4.1 TASK-BY-TASK RISK ASSESSMENT (Continued)

4.1.5 Task 5 Description

TASK 5:

EQUIPMENT REQUIRED/USED

POTENTIAL HAZARDS/RISKS

Chemical

☐ Hazard Present Risk Level: ☐ H ☐ M ☐ L
What justifies risk level?

Physical

☐ Hazard Present Risk Level: ☐ H ☐ M ☐ L
What justifies risk level?

Biological

☐ Hazard Present Risk Level: ☐ H ☐ M ☐ L
What justifies risk level?

RADIOLOGICAL

☐ Hazard Present Risk Level: ☐ H ☐ M ☐ L
What justifies risk level?

LEVELS OF PROTECTION/JUSTIFICATION

SAFETY PROCEDURES REQUIRED AND/OR FIELD OPS UTILIZED

All work will be performed in accordance with the provisions of this HASP, OSHA guidelines, and WESTON Standard Operating Procedures.

4.2 PERSONNEL PROTECTION PLAN

Engineering Controls

Describe Engineering Controls used as part of Personnel Protection Plan:

Task(s)

All Decontamination of all equipment and personnel. Decontamination, frisking, and wipe samples will be done to ensure no contamination leaves the site.

Administrative Controls

Describe Administrative Controls used as part of Personnel Protection Plan:

Task(s)

All Establish zones (exclusion, contaminant reduction zone (CRZ), etc.) for site control.
 All ALARA controls will be maintained to limit exposure to radiation. Minimize duration of exposure/maintain safe distance.
 All All equipment used inside the exclusion zone must be screened for radiation contamination prior to release.

Personal Protective Equipment

Action Levels for Changing Levels of Protection. Refer to Site Air Monitoring Program—Action Levels. Define Action Levels for up or down grade for each task:

Task(s)

All Level D

Description of Levels of Protection

Level D	Level D Modified
Task(s): All <input checked="" type="checkbox"/> Head Hard Hat (as necessary) <input checked="" type="checkbox"/> Eye and Face Safety Glasses <input type="checkbox"/> Hearing <input type="checkbox"/> Arms and Legs Only <input type="checkbox"/> Appropriate Work Uniform <input checked="" type="checkbox"/> Hand – Gloves Work and Nitrile Gloves <input checked="" type="checkbox"/> Foot - Safety Boots Steel Toe <input type="checkbox"/> Fall Protection <input type="checkbox"/> Flotation <input type="checkbox"/> Other	Task(s): <input type="checkbox"/> Head <input type="checkbox"/> Eye and Face <input type="checkbox"/> Hearing <input type="checkbox"/> Arms and Legs Only <input type="checkbox"/> Whole Body <input type="checkbox"/> Apron <input type="checkbox"/> Hand - Gloves <input type="checkbox"/> Gloves <input type="checkbox"/> Foot - Safety Boots <input type="checkbox"/> Over Boots

4.3 DESCRIPTION OF LEVELS OF PROTECTION

Level C	Level B () or Level A ()
Task(s): <input type="checkbox"/> Head <input type="checkbox"/> Eye and Face <input type="checkbox"/> Hearing <input type="checkbox"/> Arms and Legs Only <input type="checkbox"/> Whole Body <input type="checkbox"/> Apron <input type="checkbox"/> Hand – Gloves <input type="checkbox"/> Gloves <input type="checkbox"/> Gloves <input type="checkbox"/> Foot - Safety Boots <input type="checkbox"/> Outer Boots <input type="checkbox"/> Boots (Other) <input type="checkbox"/> Half Face <input type="checkbox"/> Cart./Canister <input type="checkbox"/> Full Face <input type="checkbox"/> Cart./Canister <input type="checkbox"/> PAPR <input type="checkbox"/> Cart./Canister <input type="checkbox"/> Type C <input type="checkbox"/> Fall Protection <input type="checkbox"/> Flotation <input type="checkbox"/> Other	Task(s): <input type="checkbox"/> Head <input type="checkbox"/> Eye and Face <input type="checkbox"/> Hearing <input type="checkbox"/> Arms and Legs Only <input type="checkbox"/> Whole Body <input type="checkbox"/> Apron <input type="checkbox"/> Hand - Gloves <input type="checkbox"/> Gloves <input type="checkbox"/> Gloves <input type="checkbox"/> Foot - Safety Boots <input type="checkbox"/> Outer Boots <input type="checkbox"/> Boots (Other) <input type="checkbox"/> SAR - Airline <input type="checkbox"/> SCBA <input type="checkbox"/> Comb. Airline/SCBA <input type="checkbox"/> Cascade System <input type="checkbox"/> Compressor <input type="checkbox"/> Fall Protection <input type="checkbox"/> Flotation <input type="checkbox"/> Other

5. MONITORING PROGRAM

5.1 SITE OR PROJECT HAZARD MONITORING PROGRAM

5.1.1 Air Monitoring Instruments

Instrument Selection and Initial Check Record

Reporting Format: ☐ Field Notebook ☐ Field Data Sheets* ☐ Air Monitoring Log ☐ Trip Report ☐ Other

Instrument	Task No.(s)	Number Required	Number Received	Checked Upon Receipt	Comment	Initials
<input checked="" type="checkbox"/> RAD	All			<input type="checkbox"/>		
<input checked="" type="checkbox"/> GM (Pancake)	2	1		<input type="checkbox"/>		
<input checked="" type="checkbox"/> NaI (Micro R)	All	1		<input type="checkbox"/>		
<input type="checkbox"/> ZnS (Alpha Scintillator)				<input type="checkbox"/>		
<input type="checkbox"/> Other _____				<input type="checkbox"/>		
<input type="checkbox"/> PID				<input type="checkbox"/>		
<input type="checkbox"/> MiniRAE				<input type="checkbox"/>		
<input type="checkbox"/> MultiRAE (LEL/O2/H2S/CO/PID)				<input type="checkbox"/>		
<input type="checkbox"/> TVA 1000 (PID/FID)				<input type="checkbox"/>		
<input type="checkbox"/> Other _____				<input type="checkbox"/>		
<input type="checkbox"/> FID						
<input type="checkbox"/> TVA 1000 (FID/PID)				<input type="checkbox"/>		
<input type="checkbox"/> Other _____				<input type="checkbox"/>		
<input type="checkbox"/> PDR 1000 (Particulate)				<input type="checkbox"/>		
<input type="checkbox"/> Single Gas Meter (SGM)				<input type="checkbox"/>		
Specify Chemical:				<input type="checkbox"/>		
<input type="checkbox"/> Personal Sampling Pump				<input type="checkbox"/>		
Specify Media:				<input type="checkbox"/>		
<input type="checkbox"/> Bio-Aerosol Monitor				<input type="checkbox"/>		
<input type="checkbox"/> Tubes/type: _____						
<input type="checkbox"/> Tubes/type: _____						
<input type="checkbox"/> Tubes/type: _____						
<input type="checkbox"/> Tubes/type: _____						

5.1 SITE OR PROJECT HAZARD MONITORING PROGRAM

5.1.1 Air Monitoring Instruments Calibration Record

[illegible]

5.2 SITE AIR MONITORING PROGRAM

Action Levels

These Action Levels, if not defined by regulation, are some percent (usually 50%) of the applicable PEL/TLV/REL. That number must also be adjusted to account for instrument response factors.

	Tasks	Action Level		Action
<input type="checkbox"/> Explosive or Flammable Atmosphere		Ambient Air Concentration	Confined Space Concentration	
		<10% LEL	0 to 1% LEL	Work may continue. Consider toxicity potential.
		10 to 25% LEL	1 to 10% LEL	Work may continue. Increase monitoring frequency.
		>25% LEL	>10% LEL	Work must stop. Ventilate area before returning.
<input type="checkbox"/> Oxygen		Ambient Air Concentration	Confined Space Concentration	
		<19.5% O ₂	<19.5% O ₂	Leave area. Re-enter only with self-contained breathing apparatus.
		19.5% to 25% O ₂	19.5% to 23.5% O ₂	Work may continue. Investigate changes from 21%.
		>25% O ₂	>23.5% O ₂	Work must stop. Ventilate area before returning.
<input checked="" type="checkbox"/> Radiation		<p style="text-align: center;">< 3 times background 3 times background to < 1 mR/hour</p> <p style="text-align: center;">> 1 mrem/hour</p>		<p>Continue work.</p> <p>Radiation above background levels (normally 0.01-0.02 mR/hr) signifies possible radiation source(s) present. Continue investigation with caution. Perform thorough monitoring. Consult with a Health Physicist.</p> <p>Potential radiation hazard. Evacuate site. Continue investigation only upon the advice of Health Physicist.</p>
<input type="checkbox"/> Organic Gases and Vapors				
<input type="checkbox"/> Inorganic Gases, Vapors, and Particulates				

5.3 ACTION LEVELS

(Attach action level calculations)

6. HOSPITAL INFORMATION

6.1 CONTINGENCIES

6.1.1 Emergency Contacts and Phone Numbers

Agency	Contact	Phone Number
WorkCare WESTON Medical Director WorkCare WESTON Program Administrator	Dr. Peter Greaney Heather Lind	From 6 am to 4:30 pm Pacific Time call 800-455-6155 and dial 0 for the Operator or ext. 475 for Heather Lind to request the on-call clinician.
After-Business Hours Contact (In Case of Emergency Only)		4:31 p.m. – 5:59 a.m. Pacific Time, all day Saturday, Sunday, and Holidays call 800-455-6155 Dial 3 to reach the after-hours answering service. Request that the service connect you with the on-call clinician or the on-call clinician will return your call within 30 minutes.
WESTON Corporate Environmental Health & Safety Director	Bill Irwin	610.701.3684 267.918.8371 (cell)
WESTON Central Division Medical Programs Manager	Ted Deecke	847.337.4147
WESTON Health & Safety Division Safety Manager	Ted Deecke	847-337-4147
WESTON Health & Safety Local Safety Officer	Tonya Balla	847-528-2623
Fire Department	LaSalle County Dispatcher	911
Police Department	LaSalle County Dispatcher	911
WESTON FSO Cell Phone	Tim Walls	847-849-9033
WESTON PM Cell Phone	Rick Mehl	847-254-6981
Client Site Phone	Nabil Fayoumi (U. S. EPA RPM)	312-886-6840 (office)
Site Telephone	Tim Walls	847-849-9033
Nearest Telephone	Tim Walls	847-849-9033
Poison Control		(800) 222-1222
Local Medical Emergency Facility(s) - LMF		
Name of Hospital: Community Hospital of Ottawa		
Address: 1100 East Norris Drive, Ottawa, IL 61350		Phone No.: 815-433-3100
Name of Contact: Emergency Room		Phone No.: 815-433-3100
Type of Service: <input type="checkbox"/> Physical trauma only <input type="checkbox"/> Chemical exposure only <input checked="" type="checkbox"/> Physical trauma and chemical exposure <input checked="" type="checkbox"/> Available 24 hours	Route to Hospital: (See Attached)	Travel time from site: 3 min Distance to hospital: 1.2 miles Name/no. of 24-hr ambulance service: 911

6.1.2 Hospital Map

(Attach hospital map and directions)

****Include legal disclaimer regarding use of online maps.****

***This map is subject to Google's Terms of Service, and Google is the owner of rights therein.
Portions of this image may have been removed for clarity.***

6.1 CONTINGENCIES				
6.1.3 Response Plans				
Medical - General Provide first aid, if trained; assess and determine need for further medical assistance. Transport or arrange for transport after appropriate decontamination. LMF = Local Medical Facility	First Aid Kit: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Blood Borne Pathogens Kit: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Type Appropriate sized ANSI-approved Type III Kit, plus BBP	Location In Vehicle	Special First-Aid Procedures: Cyanides on-site <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, contact LMF. Do they have antidote kit? <input type="checkbox"/> Yes <input type="checkbox"/> No
	Eyewash required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Type	Location	HF on-site <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, need neutralizing ointment for first-aid kit. Contact LMF.
	Shower required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Type	Location	
Plan for Response to Spill/Release		Plan for Response to Fire/Explosion		Fire Extinguishers
In the event of a spill or release, ensure safety, assess situation, and perform containment and control measures, as appropriate.	a. Cleanup per SDSs if small; or sound alarm, call for assistance, notify Emergency Coordinator b. Evacuate to pre-determined safe place c. Account for personnel d. Determine if team can respond safely e. Mobilize per Site Spill Response Plan	In the event of a fire or explosion, ensure personal safety, assess situation, and perform containment and control measures, as appropriate:	a. Sound alarm and call for assistance, notify Emergency Coordinator b. Evacuate to predetermined safe place c. Account for personnel d. Use fire extinguisher <u>only if safe and trained</u> in its use e. Stand by to inform emergency responders of materials and conditions	Type/Location _____ / _____ / _____ / _____ / _____ /
Description of Spill Response Gear	Location	Description (Other Fire Response Equipment)		Location
Plan to Respond to Security Problems Avoid confrontation, Call 911.				

7. DECONTAMINATION PLAN

7.1 GENERAL DECONTAMINATION PLAN

Personnel Decontamination

Consistent with the levels of protection required, step-by-step procedures for personnel decontamination for each level of protection are attached.

Levels of Protection Required for Decontamination Personnel

The levels of protection required for personnel assisting with decontamination will be:

☐ Level B

☐ Level C

☐ Level D

Modifications include:

Disposition of Decontamination Wastes

Provide a description of waste disposition including identification of storage area, hauler, and final disposal site, if applicable

Hauler/subcontractor is TBD

Equipment Decontamination

A procedure for decontamination steps required for non-sampling equipment and heavy machinery follows:

The equipment screened for radioactive contamination prior to release into unrestricted areas.

Sampling Equipment Decontamination

Sampling equipment will be decontaminated in accordance with the following procedure:

Dedicated sampling equipment will be decontaminated as above. The equipment will then be screened for radioactive contamination prior to release into unrestricted areas.

7.2 LEVEL D DECONTAMINATION PLAN	
Check indicated functions or add steps, as necessary:	
Function	Description of Process, Solution, and Container
<input checked="" type="checkbox"/> Segregated equipment drop	Set aside in specified area for decon and screening
<input type="checkbox"/> Boot cover and glove wash	
<input type="checkbox"/> Boot cover and glove rinse	
<input type="checkbox"/> Tape removal - outer glove and boot	
<input type="checkbox"/> Boot cover removal	
<input type="checkbox"/> Outer glove removal	
HOTLINE	
<input type="checkbox"/> Suit/safety boot wash	
<input type="checkbox"/> Suit/boot/glove rinse	
<input type="checkbox"/> Safety boot removal	
<input type="checkbox"/> Suit removal	
<input type="checkbox"/> Inner glove wash	
<input type="checkbox"/> Inner glove rinse	
<input checked="" type="checkbox"/> Inner glove removal	Place in used PPE drum
<input checked="" type="checkbox"/> Inner clothing removal	Screen personnel for radium contamination prior to leaving CRZ
CONTAMINATION REDUCTION ZONE (CRZ)/SAFE ZONE BOUNDARY	
<input checked="" type="checkbox"/> Field wash	At a minimum, wash hands with soap and water
<input checked="" type="checkbox"/> Redress	
Disposal Plan, End of Day: Refer to section 7.1	
Disposal Plan, End of Week: As above	
Disposal Plan, End of Project: TBD	

7.3 LEVEL C DECONTAMINATION PLAN	
Check indicated functions or add steps, as necessary:	
Function	Description of Process, Solution, and Container
<input type="checkbox"/> Segregated equipment drop	
<input type="checkbox"/> Boot cover and glove wash	
<input type="checkbox"/> Boot cover and glove rinse	
<input type="checkbox"/> Tape removal - outer glove and boot	
<input type="checkbox"/> Boot cover removal	
<input type="checkbox"/> Outer glove removal	
HOTLINE	
<input type="checkbox"/> Suit/safety boot wash	
<input type="checkbox"/> Suit/boot/glove rinse	
<input type="checkbox"/> Safety boot removal	
<input type="checkbox"/> Suit removal	
<input type="checkbox"/> Inner glove wash	
<input type="checkbox"/> Inner glove rinse	
<input type="checkbox"/> Facepiece removal	
<input type="checkbox"/> Inner glove removal	
<input type="checkbox"/> Inner clothing removal	
CONTAMINATION REDUCTION ZONE (CRZ)/SAFE ZONE BOUNDARY	
<input type="checkbox"/> Field wash	
<input type="checkbox"/> Redress	
Disposal Plan, End of Day:	
Disposal Plan, End of Week:	
Disposal Plan, End of Project:	

7.4 LEVEL B () or Level A () DECONTAMINATION PLAN	
Check indicated functions or add steps, as necessary:	
Function	Description of Process, Solution, and Container
<input type="checkbox"/> Segregated equipment drop	
<input type="checkbox"/> Boot cover and glove wash	
<input type="checkbox"/> Boot cover and glove rinse	
<input type="checkbox"/> Tape removal - outer glove and boot	
<input type="checkbox"/> Boot cover removal	
<input type="checkbox"/> Outer glove removal	
HOTLINE	
<input type="checkbox"/> Suit/safety boot wash	
<input type="checkbox"/> Suit/SCBA/boot/glove rinse	
<input type="checkbox"/> Safety boot removal	
<input type="checkbox"/> Remove SCBA backpack without disconnecting	
<input type="checkbox"/> Splash suit removal	
<input type="checkbox"/> Inner glove wash	
<input type="checkbox"/> Inner glove rinse	
<input type="checkbox"/> SCBA disconnect and facepiece removal	
<input type="checkbox"/> Inner glove removal	
<input type="checkbox"/> Inner clothing removal	
CONTAMINATION REDUCTION ZONE (CRZ)/SAFE ZONE BOUNDARY	
<input type="checkbox"/> Field wash	
<input type="checkbox"/> Redress	
Disposal Plan, End of Day: 	
Disposal Plan, End of Week: 	
Disposal Plan, End of Project: 	

8. TRAINING AND BRIEFING TOPICS/SIGN OFF SHEET

8.1 TRAINING AND BRIEFING TOPICS

The following items will be covered at the site-specific training meeting, daily or periodically.

<input checked="" type="checkbox"/> Site characterization and analysis, Sec. 3.0, 29 CFR 1910.120 I	<input type="checkbox"/> Level A
<input checked="" type="checkbox"/> Physical hazards	<input type="checkbox"/> Level B
<input type="checkbox"/> Chemical hazards	<input type="checkbox"/> Level C
<input checked="" type="checkbox"/> Animal bites, stings, and poisonous plants	<input checked="" type="checkbox"/> Level D
<input type="checkbox"/> Etiologic (infectious) agents	<input type="checkbox"/> Monitoring, 29 CFR 1910.120 (h)
<input type="checkbox"/> Site control, 29 CFR 1910.120 d	<input checked="" type="checkbox"/> Decontamination, 29 CFR 1910.120 (k)
<input checked="" type="checkbox"/> Engineering controls and work practices, 29 CFR 1910.120 (g)	<input type="checkbox"/> Emergency response, 29 CFR 1910.120 (l)
<input type="checkbox"/> Heavy machinery	<input type="checkbox"/> Elements of an emergency response, 29 CFR 1910.120 (l)
<input type="checkbox"/> Forklift	<input checked="" type="checkbox"/> Procedures for handling site emergency incidents, 29 CFR 1910.120 (l)
<input type="checkbox"/> Backhoe	<input type="checkbox"/> Off-site emergency response, 29 CFR 1910.120 (l)
<input checked="" type="checkbox"/> Equipment	<input checked="" type="checkbox"/> Handling drums and containers, 29 CFR 1910.120 (j)
<input checked="" type="checkbox"/> Tools	<input checked="" type="checkbox"/> Opening drums and containers
<input type="checkbox"/> Ladder, 29 CFR 1910.25.26.26 + 29 CFR 1926.1053	<input type="checkbox"/> Electrical material handling equipment
<input type="checkbox"/> Overhead and underground utilities	<input checked="" type="checkbox"/> Radioactive waste
<input type="checkbox"/> Scaffolds	<input type="checkbox"/> Shock-sensitive waste
<input type="checkbox"/> Structural integrity	<input type="checkbox"/> Laboratory waste packs
<input type="checkbox"/> Unguarded openings - wall, floor, ceilings	<input checked="" type="checkbox"/> Sampling drums and containers
<input type="checkbox"/> Pressurized air cylinders	<input checked="" type="checkbox"/> Shipping and transport, 49 CFR 172.101, IATA
<input type="checkbox"/> Personal protective equipment, 29 CFR 1910.120 (g); 29 CFR 1910.134	<input type="checkbox"/> Tank and vault procedures
<input type="checkbox"/> Respiratory protection, 29 CFR 1910.120 (g); ANSI Z88.2	<input checked="" type="checkbox"/> Illumination, 29 CFR 1926.26
<input type="checkbox"/> Working over water FLD-19 <input type="checkbox"/>	<input checked="" type="checkbox"/> Sanitation, 29 CFR 1926.27
<input type="checkbox"/> Boating safety FLD-18	<input checked="" type="checkbox"/> Proper lifting techniques
<input checked="" type="checkbox"/> Heat Stress / Cold Stress	<input type="checkbox"/>

8.2 HEALTH AND SAFETY PLAN APPROVAL/SIGNOFF FORM

Site Name: Ottawa Radiation Area NPL-4

WO#: 20405.012.008.0385.00

Address: 1804 N 2753 Road, Ottawa, IL

I understand, agree to, and will conform with the information set forth in this Health and Safety Plan (and attachments) and discussed in the personnel health and safety briefing(s).

Name

Signature

Date

Tim Walls

ATTACHMENT A

CHEMICAL CONTAMINANTS DATA SHEETS

Insert sheets on following page.

July 2012

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ATTACHMENT B
SAFETY DATA SHEETS
(ATTACH SDS)

Insert documents on following page.

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ATTACHMENT C

SAFETY PROCEDURES/FIELD OPERATING PROCEDURES (FLD OPS)

Insert documents on following page.

In lieu of attaching individual copies of FLDs, the site safety officer or his designee may elect to maintain an electronic copy of the WESTON Corporate Environmental Compliance, Health, and Safety Program Manual (including all FLDs) on site in an electronic format. The most recent version of the CEHS Program Manual and supporting documents are located at:

<http://portal/services/EHS/SitePages/CEHSProgramElements.aspx>

July 2012

July 2012

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ATTACHMENT D

HAZARD COMMUNICATION PROGRAM

July 2012

SITE-SPECIFIC HAZARD COMMUNICATION PROGRAM

Location-Specific Hazard Communication Program/Checklist

To ensure an understanding of and compliance with the Hazard Communication Standard, WESTON will use this checklist/document (or similar document) in conjunction with the WESTON Written Hazard Communication Program as a means of meeting site- or location-specific requirements.

While responsibility for activities within this document reference the WESTON Safety Officer (SO), it is the responsibility of all personnel to ensure compliance. Responsibilities under various conditions can be found within the WESTON Written Hazard Communication Program.

To ensure that information about the dangers of all hazardous chemicals used by WESTON is known by all affected employees, the following Hazard Communication Program has been established. All affected personnel will participate in the Hazard Communication Program. This written program, as well as WESTON's Corporate Hazard Communication Program, will be available for review by any employee, employee representative, representative of OSHA, NIOSH, or any affected employer/employee on a multi-employer site.

- ☐ Site or other location name/address: 1804 N 2753 Road, Ottawa, IL
- ☐ Site/Project/Location Manager: Rick Mehl
- ☐ Site/Location Safety Officer: Tim Walls
- ☐ List of chemicals compiled, format: ☒ HASP ☐ Other: _____
- ☐ Location of SDS files: HASP
- ☐ Training conducted by: Name: _____ Date: _____
- ☐ Indicate format of training documentation: ☐ Field Log ☐ Other: _____
- ☐ Client briefing conducted regarding hazard communication: _____
- ☐ If multi-employer site (client, subcontractor, agency, etc.), indicate name of affected companies: _____
- ☐ Other employer(s) notified of chemicals, labeling, and SDS information: HASP Review
- ☐ Has WESTON been notified of other employer's or client's hazard communication program(s), as necessary? ☐ Yes ☐ No

List of Hazardous Chemicals

A list of known hazardous chemicals used by WESTON personnel must be prepared and attached to this document or placed in a centrally identified location with the SDSs. Further information on each chemical may be obtained by reviewing the appropriate SDS. The list will be arranged to enable cross-reference with the SDS file and the label on the container. The SO or Location Manager is responsible for ensuring the chemical listing remains up-to-date.

Container Labeling

The WESTON SO will verify that all containers received from the chemical manufacturer, importer, or distributor for use on-site are clearly labeled.

The SO is responsible for ensuring that labels are placed where required and for comparing SDSs and other information with label information to ensure correctness.

July 2012

Safety Data Sheets (SDSs)

The SO is responsible for establishing and monitoring WESTON's SDS program for the location. The SO will ensure that procedures are developed to obtain the necessary SDSs and will review incoming SDSs for new or significant health and safety information. He/she will see that any new information is passed on to the affected employees. If an SDS is not received at the time of initial shipment, the SO will call the manufacturer and have an SDS delivered for that product in accordance with the requirements of WESTON's Written Hazard Communication Program.

A log for, and copies of, SDSs for all hazardous chemicals in use will be kept in the SDS folder at a location known to all site workers. SDSs will be readily available to all employees during each work shift. If an MSDS is not available, immediately contact the WESTON SO or the designated alternate. When a revised SDS is received, the SO will immediately replace the old SDS.

Employee Training and Information

The SO is responsible for the WESTON site-specific personnel training program. The SO will ensure that all program elements specified below are supplied to all affected employees.

At the time of initial assignment for employees to the work site, or whenever a new hazard is introduced into the work area, employees will attend a health and safety meeting or briefing that includes the information indicated below.

- Hazardous chemicals present at the work site.
- Physical and health risks of the hazardous chemicals.
- The signs and symptoms of overexposure.
- Procedures to follow if employees are overexposed to hazardous chemicals.
- Location of the SDS file and Written Hazard Communication Program.
- How to determine the presence or release of hazardous chemicals in the employee's work area.
- How to read labels and review SDSs to obtain hazard information.
- Steps WESTON has taken to reduce or prevent exposure to hazardous chemicals.
- How to reduce or prevent exposure to hazardous chemicals through the use of controls procedures, work practices, and personal protective equipment.
- Hazardous, non-routine tasks to be performed (if any).
- Chemicals within unlabeled piping (if any).

Hazardous Non-routine Tasks

When employees are required to perform hazardous non-routine tasks, the affected employee(s) will be given information by the SO about the hazardous chemicals he or she may use during such activity. This information will include specific chemical hazards, protective and safety measures the employee can use, and steps WESTON is using to reduce the hazards. These steps include, but are not limited to, ventilation, respirators, presence of another employee, and emergency procedures.

Chemicals in Unlabeled Pipes

Work activities may be performed by employees in areas where chemicals are transferred through unlabeled pipes. Prior to starting work in these areas, the employee will contact the SO, at which time information as to the chemical(s) in the pipes, potential hazards of the chemicals or the process involved, and the safety precautions that should be taken will be determined and presented.

Multi-Employer Work Sites

It is the responsibility of the SO to provide other employers with information about hazardous chemicals imported by WESTON to which their employees may be exposed, along with suggested safety precautions. It is also the responsibility of the SO and the Site Manager to obtain information about hazardous chemicals used by other employers to which WESTON employees may be exposed.

WESTON's chemical listing will be made available to other employers, as requested. SDSs will be available for viewing, as necessary.

The location, format, and/or procedures for accessing SDS information must be relayed to affected employees.

July 2012

ATTACHMENT E

AIR SAMPLING DATA SHEETS

July 2012

SITE AIR MONITORING PROGRAM								
Field Data Sheets								
Location:								
% LEL	% O ₂	PID (units)	FID (units)	Aerosol Monitor (mg/m ³)	GM: Shield Probe/ Thin Window		NaI (uR/hr)	ZnS (cpm)
					mR/hr	cpm		
Monitox (ppm)				Detector Tube(s)				
Sound Levels (dBA)		Illumination	pH	Other	Other	Other	Other	Other
Location:								
% LEL	% O ₂	PID (units)	FID (units)	Aerosol Monitor (mg/m ³)	GM: Shield Probe/ Thin Window		NaI (uR/hr)	ZnS (cpm)
					mR/hr	cpm		
Monitox (ppm)				Detector Tube(s)				
Sound Levels (dBA)		Illumination	pH	Other	Other	Other	Other	Other

AIR MONITORING/SAMPLING DATA LOG					
Client:		W.O. No.:		Sample No.:	
Address:		Sampled By:		Date:	
Employee and Location Information					
Employee Name:		Employee No.:		Job Title:	
Respirator <input type="checkbox"/> APR <input type="checkbox"/> ½ Mask <input type="checkbox"/> Full Face <input type="checkbox"/> PAPR <input type="checkbox"/> ½ Mask <input type="checkbox"/> Full Face <input type="checkbox"/> Hood <input type="checkbox"/> SAR <input type="checkbox"/> ½ Mask <input type="checkbox"/> Full Face <input type="checkbox"/> Hood <input type="checkbox"/> SCBA		Manufacturer:		Cartridge Type:	
PPE: <input type="checkbox"/> Hard Hat <input type="checkbox"/> HPD <input type="checkbox"/> Gloves <input type="checkbox"/> Safety Shoes <input type="checkbox"/> Coveralls <input type="checkbox"/> Other:					
Sampling Data					
Sampling Type: <input type="checkbox"/> Personal <input type="checkbox"/> TWA <input type="checkbox"/> STEL <input type="checkbox"/> Area <input type="checkbox"/> Source <input type="checkbox"/> Full Shift <input type="checkbox"/> Partial Shift <input type="checkbox"/> Grab		Media:		Pump Type/Serial No.:	
Calibrator/Serial No.:		Pre-Calibration: 1. 2. 3. avg-pre:		Post-Calibration: 1. 2. 3. avg-post:	
Start Time:	Restart Time:	Restart Time:	Avg. Flow rate:	% Change:	
1 st Stop Time:	2 nd Stop Time:	3 rd Stop Time:	Total Time:	Volume:	
Multiple Samples for this TWA: <input type="checkbox"/> Yes <input type="checkbox"/> No		Multiple Chemical Exposures: <input type="checkbox"/> Yes <input type="checkbox"/> No		Exposure Time: <input type="checkbox"/> Normal <input type="checkbox"/> Worst Case	
Sampling Conditions					
Weather Conditions: Temp: R.H.: B.P.: Other:					
Engineering Controls:					
Substances Evaluated					
Substance	Result	Substance	Result	Substance	Result
Observations and Comments					

QA by: _____

Date: _____

July 2012

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ATTACHMENT F INCIDENT REPORTING

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Incident Info | Individual Data | Investigation | File Attachment

☐ Near Incident Fields marked with * are required

Security	Safety	Computer	Other
<input type="checkbox"/> Threat or Intimidation	<input type="checkbox"/> Vehicle	<input type="checkbox"/> Computer/Technology	<input type="checkbox"/> Environmental
<input type="checkbox"/> Act of Violence	<input type="checkbox"/> Injury	<input checked="" type="checkbox"/> Other	<input type="checkbox"/> Property/Equipment Damage
<input type="checkbox"/> Theft	<input type="checkbox"/> Illness		<input type="checkbox"/> Regulatory Agency
<input type="checkbox"/> Vandalism	<input type="checkbox"/> Exposure		<input type="checkbox"/> Other
<input type="checkbox"/> Violation of Company or Government Security Requirements	<input type="checkbox"/> Other Safety		
<input type="checkbox"/> Other Security			

Was this a single event or the latest in a series(describe)?

Note: This description is limited to 255 characters. If more information is required, add the information in the submitted description.

Date of Incident * ☐ Unknown Date

Time of Incident * Hrs min AM PM ☐ Unknown Time

Please go to NOITrack using the following link to complete incident reporting. If you are in the field and do not have access to NOITrack, please contact someone in your office to do the reporting for you.

<http://asweb/noitrack/IncidentInfo.aspx>

Questions can be directed to Susan Hipp-Ludwick at 610.701.3046.

July 2012

ATTACHMENT G TRAFFIC CONTROL PLAN

Insert documents on following page.

July 2012

July 2012

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ATTACHMENT H

ENVIRONMENTAL HEALTH & SAFETY INSPECTION CHECKLIST

July 2012

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ENVIRONMENTAL HEALTH AND SAFETY INSPECTION CHECKLIST

Project Name: _____

Inspector: _____

Submit to: _____

Date: _____

July 2012

THE WESTON SITE APPEARANCE

YES	NO		COMMENT
<input type="checkbox"/>	<input type="checkbox"/>	Is the site secured to prevent inadvertent, unnecessary, or unauthorized access? Are gates closed and locked at any time that the access point is not occupied or visible to site workers?	
<input type="checkbox"/>	<input type="checkbox"/>	Are access points posted with signs to indicate client and end-user client name, WESTON's name and logo, names of other contractors and sub-contractors, project name and location, and appropriate safety messages?	
<input type="checkbox"/>	<input type="checkbox"/>	Are required postings in place (e.g., Labor Poster, Emergency Phone Numbers, Site Map, etc.)?	
<input type="checkbox"/>	<input type="checkbox"/>	Are site trailers tied down per local code and provided with stairs that have a landing platform with guard and stair railings?	
<input type="checkbox"/>	<input type="checkbox"/>	Is a Site Safety file system established in the office to maintain records required by applicable safety regulations	
<input type="checkbox"/>	<input type="checkbox"/>	Is the Health and Safety Plan (HASP) or Accident Prevention Plan (APP) amended as scope of work changes, hazards are discovered or eliminated or if risk change?	
<input type="checkbox"/>	<input type="checkbox"/>	Is the Site Safety Plan and the Safety Officers Field Manual on site?	
<input type="checkbox"/>	<input type="checkbox"/>	Is new employee indoctrination provided?	
<input type="checkbox"/>	<input type="checkbox"/>	Have site Rules been provided, discussed and signed off on by all employees	
<input type="checkbox"/>	<input type="checkbox"/>	Incident Reporting procedure explained to all?	
<input type="checkbox"/>	<input type="checkbox"/>	Is site management trained in the WESTON (and client as applicable) Incident Reporting system?	
<input type="checkbox"/>	<input type="checkbox"/>	Are NOI and Supplemental Report forms and OSHA 300 Log available on site?	
<input type="checkbox"/>	<input type="checkbox"/>	Is Site Management aware of the Case Management and Incident Investigation Procedures?	
<input type="checkbox"/>	<input type="checkbox"/>	Is there a list of preferred provider medical facilities available?	
<input type="checkbox"/>	<input type="checkbox"/>	Has the "Inspection By A Regulatory Agency" procedure been reviewed by all site management?	
<input type="checkbox"/>	<input type="checkbox"/>	Will Competent Persons be required because of activities to be performed, equipment to be used or hazards to be encountered?	

POLICIES

YES	NO		COMMENT
<input type="checkbox"/>	<input type="checkbox"/>	Each individual employee is aware that he or she responsible for complying with applicable safety requirements, wearing prescribed safety equipment and preventing avoidable accidents.	
<input type="checkbox"/>	<input type="checkbox"/>	Do employees understand that they will wear clothing suitable for existing weather and work conditions and the minimum work uniform will include long pants, sleeved work shirts, protective footwear, hard hat, and safety glasses unless otherwise specified via the HASP.	
<input type="checkbox"/>	<input type="checkbox"/>	Are employees provided safety and health training to enable them to perform their work safely? Is all training documented to indicate the date of the session, topics covered, and names of participants?	
<input type="checkbox"/>	<input type="checkbox"/>	Safety meetings are conducted daily. The purpose of the meetings are to review past activities, review pertinent tailgate safety topics and establish safe working procedures for anticipated hazards encountered during the day.	
<input type="checkbox"/>	<input type="checkbox"/>	Training has been provided to all personnel regarding handling of emergency situations that may arise from the activity or use of equipment on the project.	
<input type="checkbox"/>	<input type="checkbox"/>	Employees/contractors are informed and understand that they may not be under the influence of alcohol, narcotics, intoxicants, or similar mind-altering substances at any time. Employees found under the influence of or consuming such substances will be immediately removed from the job site.	
<input type="checkbox"/>	<input type="checkbox"/>	Site workers and operators of any equipment or vehicles are able to read and understand the signs, signals, and operating instructions of their use.	
<input type="checkbox"/>	<input type="checkbox"/>	Have contractors performing work provided copies of relevant documentation (such as medical fit-for-duty, training certificates, fit-tests, etc.) prior to initiation of the project?	

July 2012

SANITATION
29 CFR 1926 Subparts C, D. EM 385-1-1, Section 2

YES	NO		COMMENT
<input type="checkbox"/>	<input type="checkbox"/>	Is an adequate supply of drinking water provided? Is potable/drinking water labeled as such? Are there sufficient drinking cups provided?	
<input type="checkbox"/>	<input type="checkbox"/>	Are there a sufficient number of toilets?	
<input type="checkbox"/>	<input type="checkbox"/>	Are washing facilities readily available and appropriate for the cleaning needs?	
<input type="checkbox"/>	<input type="checkbox"/>	Are washing facilities kept sanitary with adequate cleansing and drying materials?	
<input type="checkbox"/>	<input type="checkbox"/>	Waste is secured so as not to attract rodents, insects, or other vermin?	
<input type="checkbox"/>	<input type="checkbox"/>	Is an effective housekeeping program established and implemented?	

ACCIDENT PREVENTION SIGNS, TAGS, LABELS, SIGNALS, AND PIPING SYSTEM IDENTIFICATION
29 CFR 1926 Subpart G. EM 385-1-1, Section 8

YES	NO		COMMENT
<input type="checkbox"/>	<input type="checkbox"/>	Are signs, tags, and labels provided to give adequate warning and caution of hazards and instruction/directions to workers and the public?	
<input type="checkbox"/>	<input type="checkbox"/>	Are all employees informed as to the meaning of the various signs, tags, and labels used in the workplace and what special precautions are required?	
<input type="checkbox"/>	<input type="checkbox"/>	Are construction areas posted with legible traffic signs at points of hazard?	
<input type="checkbox"/>	<input type="checkbox"/>	Are signs required to be seen at night lighted or reflectorized?	
<input type="checkbox"/>	<input type="checkbox"/>	Tags contain a signal word ("danger" or "caution") and a major message to indicate the specific hazardous condition or the instruction to be communicated to the employee. Tags follow requirements as outlined in 29 CFR 1926.200.	

MEDICAL SERVICES AND FIRST AID
29 CFR 1926 Subparts C, D. EM 385-1-1, Section 3

YES	NO		COMMENT
<input type="checkbox"/>	<input type="checkbox"/>	Is a local medical emergency facility (LMEF) identified in the HASP or APP?	
<input type="checkbox"/>	<input type="checkbox"/>	Has the LMEF been visited to verify the directions and establish contacts?	
<input type="checkbox"/>	<input type="checkbox"/>	Has site management reviewed WESTON's incident management procedures?	
<input type="checkbox"/>	<input type="checkbox"/>	Have clinics and specialists that will help WESTON manage injuries and illnesses been identified?	
<input type="checkbox"/>	<input type="checkbox"/>	Is there at least two (2) people certified in First Aid and CPR?	
<input type="checkbox"/>	<input type="checkbox"/>	Are first aid kits available at the command post and appropriate remote locations?	
<input type="checkbox"/>	<input type="checkbox"/>	Are first Aid Kits and Eyewash/Safety Showers inspected weekly?	
<input type="checkbox"/>	<input type="checkbox"/>	Are 15 minute eyewash/safety showers in place if required?	

July 2012

FIRE PREVENTION AND PROTECTION
29 CFR 1926 Subpart F. EM 385-1-1, Section 9

YES	NO		COMMENT
<input type="checkbox"/>	<input type="checkbox"/>	Is an Emergency Response and Contingency Plan in place?	
<input type="checkbox"/>	<input type="checkbox"/>	Are emergency phone numbers posted?	
<input type="checkbox"/>	<input type="checkbox"/>	Are fire extinguishers selected and provided based on the types of materials and potential fire classes in each area?	
<input type="checkbox"/>	<input type="checkbox"/>	Are fire extinguishers provided in each administrative and storage trailer, within 50 ft but no closer than 25 ft of any fuel or flammable liquids storage, on welding and cutting equipment, on mechanical equipment?	
<input type="checkbox"/>	<input type="checkbox"/>	Are fire extinguishers checked daily and inspected monthly?	
<input type="checkbox"/>	<input type="checkbox"/>	Do site personnel know the location of fire extinguishers and how to use them?	
<input type="checkbox"/>	<input type="checkbox"/>	Are flammable and combustible liquids stored in approved containers?	
<input type="checkbox"/>	<input type="checkbox"/>	Safety cans are used for dispensing flammable or combustible liquids in 5 gallon or less volumes.	
<input type="checkbox"/>	<input type="checkbox"/>	Are flammable and combustible liquids stored in flammable storage cabinets or appropriate storage areas?	
<input type="checkbox"/>	<input type="checkbox"/>	Are flammable materials separated from oxidizers by at least 20 feet (or 5 foot tall, ½ -hour rated fire wall) when in storage?	
<input type="checkbox"/>	<input type="checkbox"/>	Are fuel storage tanks double walled or placed in a lined berm?	
<input type="checkbox"/>	<input type="checkbox"/>	Spills are cleaned up immediately and wastes are disposed of properly.	
<input type="checkbox"/>	<input type="checkbox"/>	Combustible scrap, debris, and waste material (oily rags) are stored in closed metal containers and disposed of promptly.	
<input type="checkbox"/>	<input type="checkbox"/>	Vehicle fueling tanks are grounded and bonding between the tank and vehicle being fueled is provided?	
<input type="checkbox"/>	<input type="checkbox"/>	LPG is stored, handled, and used according to OSHA regulations 29 CFR 1926.	
<input type="checkbox"/>	<input type="checkbox"/>	LPG cylinders are not stored indoors.	
<input type="checkbox"/>	<input type="checkbox"/>	Is a hot work permit program in place? See WESTON FLD-36	
<input type="checkbox"/>	<input type="checkbox"/>	Is smoking limited to specific areas, prohibited in flammable storage areas and are signs posted to this effect?	

HAZARDOUS SUBSTANCES, AGENTS, AND ENVIRONMENTS
29 CFR 1926 Subparts D, Z. EM 385-1-1, Sections 6, 28

YES	NO		COMMENT
<input type="checkbox"/>	<input type="checkbox"/>	Are operations, materials and equipment evaluated to determine the presence of hazardous contaminants or if hazardous agents could be released in the work environment?	
<input type="checkbox"/>	<input type="checkbox"/>	Are SDS for substances made available at the work-site when any hazardous substance is procured, used, or stored?	
<input type="checkbox"/>	<input type="checkbox"/>	Are all containers and piping containing hazardous substances labeled appropriately?	
<input type="checkbox"/>	<input type="checkbox"/>	Is there an inventory of hazardous substances?	
<input type="checkbox"/>	<input type="checkbox"/>	Is there a site Specific Hazard Communication Program?	
<input type="checkbox"/>	<input type="checkbox"/>	Spill kits appropriate for the hazardous materials present are on site and their location is known to spill responders.	
<input type="checkbox"/>	<input type="checkbox"/>	Is disposal of excess hazardous chemicals performed according to WESTON's guidelines and RCRA regulations?	
<input type="checkbox"/>	<input type="checkbox"/>	Before initiation of activities where there is an identified asbestos or lead hazard, is there a written plan detailing compliance with OSHA and EPA asbestos or lead abatement requirements? Does the plan comply with state and local authority, and USACE requirements, as applicable?	
<input type="checkbox"/>	<input type="checkbox"/>	Are personnel trained and provided with protection against hazards from animals, poisonous plants, and insects?	

July 2012

PERSONAL PROTECTIVE AND SAFETY EQUIPMENT, RESPIRATORY AND FALL PROTECTION
29 CFR 1926 Subparts D, E, M. EM 385-1-1, Section 5

YES	NO		COMMENT
<input type="checkbox"/>	<input type="checkbox"/>	Do employees understand that the minimum PPE is hard hat, safety glasses with side shields and safety shoes or boots and that long pants and a sleeved shirt are required?	
<input type="checkbox"/>	<input type="checkbox"/>	Has the SSHC reviewed the PPE requirements in the HASP against actual site conditions and certified that the PPE is appropriate? (see Field Manual, PPE Program)	
<input type="checkbox"/>	<input type="checkbox"/>	PPE is inspected, tested and maintained in serviceable and sanitary condition as recommended by the manufacturer. Is defective or damaged equipment taken out of service and repaired or replaced?	
<input type="checkbox"/>	<input type="checkbox"/>	Are workers trained in the use of the PPE required?	
<input type="checkbox"/>	<input type="checkbox"/>	Are personnel exposed to vehicular or equipment traffic, including signal persons, spotters or inspectors required to vests or apparel marked with a reflective or high visibility material?	
<input type="checkbox"/>	<input type="checkbox"/>	Is there a noise hazard? If yes, hearing protection will be required.	
<input type="checkbox"/>	<input type="checkbox"/>	Is there a splash or splatter hazard? Face shields or goggles will be required.	
<input type="checkbox"/>	<input type="checkbox"/>	Will personnel be working in or over water? Personnel Flootation devices will be required.	
<input type="checkbox"/>	<input type="checkbox"/>	Is there a welding hazard? Welding helmet and leathers will be required. Is there a cutting torch hazard? Goggles and protective clothing will be required.	
<input type="checkbox"/>	<input type="checkbox"/>	Is each person on a walking/working surface with an unprotected side or edge which is 6 feet (1.8 m) or more above a lower level protected from falling by the use of guardrail systems, safety net systems or personal fall arrest systems? See WESTON FLD 25 (Note General Industry standard is four feet).	
<input type="checkbox"/>	<input type="checkbox"/>	Guardrail systems are used as primary protection whenever feasible. Guardrail construction meets criteria in 29 CFR 1926.502(b).	
<input type="checkbox"/>	<input type="checkbox"/>	Personal fall arrest systems (PFAS) are inspected and appropriate for use.	
<input type="checkbox"/>	<input type="checkbox"/>	Ropes and straps (webbing) used in lanyards, lifelines, and strength components of body belts and body harnesses are from synthetic fibers.	
<input type="checkbox"/>	<input type="checkbox"/>	Safety nets and safety net installations are constructed, tested and used according to 29 CFR 1926.502.c	
<input type="checkbox"/>	<input type="checkbox"/>	Is respirator use required? See WESTON Respiratory Protection Program	
<input type="checkbox"/>	<input type="checkbox"/>	Persons using respiratory protection have been successfully medically cleared, trained, and fit tested.	
<input type="checkbox"/>	<input type="checkbox"/>	Respirators are used according to the manufacturer's instructions, regulatory requirements, selection criteria, and health and safety plan provisions.	
<input type="checkbox"/>	<input type="checkbox"/>	For Level C operations with organic vapor contamination, is the cartridge change-out schedule documented?	
<input type="checkbox"/>	<input type="checkbox"/>	Is breathing certified as Grade D, or better, and certification available on-site?	

MACHINERY AND MECHANIZED EQUIPMENT
29 CFR 1926 Subparts N, O, CC and DD. EM 385-1-1, Sections 16, 17, 18

YES	NO		COMMENT
<input type="checkbox"/>	<input type="checkbox"/>	Are inspections of machinery by a competent person established?	
<input type="checkbox"/>	<input type="checkbox"/>	Is equipment inspected daily before its next use?	
<input type="checkbox"/>	<input type="checkbox"/>	Equipment inspection reports are reviewed, followed-up on negative findings and records of inspections are maintained?	
<input type="checkbox"/>	<input type="checkbox"/>	Machinery or equipment found to be unsafe is taken out of service until the unsafe condition has been corrected.	
<input type="checkbox"/>	<input type="checkbox"/>	Is there a preventive maintenance program established?	
<input type="checkbox"/>	<input type="checkbox"/>	Are operators of equipment qualified and authorized to operate?	
<input type="checkbox"/>	<input type="checkbox"/>	Is all self-propelled construction and industrial equipment equipped with a reverse signal alarm?	
<input type="checkbox"/>	<input type="checkbox"/>	Are seats or equal protection provided for each person required to ride on equipment. Are seatbelts installed and worn on motor vehicles, as appropriate.	
<input type="checkbox"/>	<input type="checkbox"/>	All equipment with windshields is equipped with powered wipers. If fogging or frosting is possible, operable defogging or defrosting devices are required.	
<input type="checkbox"/>	<input type="checkbox"/>	Internal combustion engines are not operated in enclosed areas unless adequate ventilation is made. Air monitoring is conducted to assure safe working conditions.	
<input type="checkbox"/>	<input type="checkbox"/>	Is each bulldozer, scraper, dragline, crane, motor grader, front-end loader, mechanical shovel, backhoe, or similar equipment equipped with at least one dry chemical or carbon dioxide fire extinguisher with a minimum rating of 5-B:C?	
<input type="checkbox"/>	<input type="checkbox"/>	Will cranes or other lifting devices be used? If so, are the following documents available on site: 1) a copy of the operating manual, 2) load rating chart, 3) log book, 4) a copy of the last annual inspection and 5) the initial on-site inspection?	
<input type="checkbox"/>	<input type="checkbox"/>	Do operators have certificates of training to operate the type of crane(s) to be used?	
<input type="checkbox"/>	<input type="checkbox"/>	Is a signal person provided when the point of operation is not in full view of the vehicle, machine, or equipment operator? When manual (hand) signals are used, is only one person designated to give signals to the operator?	
<input type="checkbox"/>	<input type="checkbox"/>	Signal persons back one vehicle at a time. While under the control of a signal person, drivers do not back or maneuver until directed. Drivers stop if contact with the signal person is lost.	
<input type="checkbox"/>	<input type="checkbox"/>	Is a critical lift plan prepared by a competent person whenever: a lift is not routine, or a lift exceeds 75% of a crane's capacity, a lift results in the load being out of the operator's line of sight, or a lift involves more than one crane, a man basket is used, or the operator believes there is a need for a critical lift plan.	
<input type="checkbox"/>	<input type="checkbox"/>	Fork Lifts (Powered Industrial Trucks) - Will forklifts be used on site?	
<input type="checkbox"/>	<input type="checkbox"/>	All forklifts meet the requirements of design, construction, stability, inspection, testing, maintenance, and operation as indicated in ANSI/ASME B56.1 Safety Standards for Low Lift and High Lift Trucks.	
<input type="checkbox"/>	<input type="checkbox"/>	Do forklift operators have certificates of training?	
<input type="checkbox"/>	<input type="checkbox"/>	Are pile driving operations conducted according to EM 385-1-1, Section 16.L?	
<input type="checkbox"/>	<input type="checkbox"/>	Is drilling equipment operated, inspected, and maintained as specified in the manufacturer's operating manual? Is a copy of the manual available at the work-site? See also the Drilling Safety Guide in the Safety Officers Field Manual.	
<input type="checkbox"/>	<input type="checkbox"/>	Are flag persons provided when operations or equipment on or near a highway expose workers to traffic hazards? Do flag persons and persons working in proximity to a road wear high visibility vests? Are persons exposed to highway vehicle traffic protected by signs in all directions warning of the presence of the flag persons and the work? Do signs and distances from the work zone conform to federal and local regulations?	

July 2012

MOTOR VEHICLES
29 CFR 1926 Subpart O. EM 385-1-1, Section 18

YES	NO		COMMENT
<input type="checkbox"/>	<input type="checkbox"/>	Motor vehicle operators have a valid permit, license, or certification of ability for the equipment being operated.	
<input type="checkbox"/>	<input type="checkbox"/>	Inspection, maintenance, and repair is according to manufacturer's requirements by qualified persons.	
<input type="checkbox"/>	<input type="checkbox"/>	Vehicles are inspected on a scheduled maintenance program.	
<input type="checkbox"/>	<input type="checkbox"/>	Vehicles not in safe operating condition are removed from service until defects are corrected.	
<input type="checkbox"/>	<input type="checkbox"/>	Glass in windshields, windows, and doors is safety glass. Any cracked or broken glass is replaced.	
<input type="checkbox"/>	<input type="checkbox"/>	Seatbelts are installed and worn.	
<input type="checkbox"/>	<input type="checkbox"/>	The number of passengers in passenger-type vehicles does not exceed the number which can be seated.	
<input type="checkbox"/>	<input type="checkbox"/>	Trucks used to transport personnel have securely anchored seating, a rear end gate, and a guardrail.	
<input type="checkbox"/>	<input type="checkbox"/>	No person is permitted to ride with arms or legs outside of a vehicle body; in a standing position on the body; on running boards; seated on side fenders, cabs, cab shields, rear of the truck or on the load.	
<input type="checkbox"/>	<input type="checkbox"/>	ATV operators possess a valid state driver's license, have completed an ATV training course prior to operation of the vehicle, and wear appropriate protective equipment such as helmets, boots, and gloves.	

EXCAVATING AND TRENCHING
29 CFR 1926 Subpart P. EM 385-1-1, Section 25

YES	NO		COMMENT
<input type="checkbox"/>	<input type="checkbox"/>	Has the known or estimated location of utility installations such as sewer, telephone, fuel, electric, water lines, or any other underground installations that may be expected to be encountered during excavation been determined before excavation? Have utility locations been verified by designated state services according to state regulations? Has the client provided clearance where state jurisdiction doesn't apply?	
<input type="checkbox"/>	<input type="checkbox"/>	Have overhead utilities in excavation areas been identified and either de-energized, shielded or barricaded so excavating equipment will not come within 10 feet?	
<input type="checkbox"/>	<input type="checkbox"/>	Are inspections of the excavation, the adjacent areas, and protective systems made daily and as necessary by a competent person?	
<input type="checkbox"/>	<input type="checkbox"/>	Are Protective systems in place as prescribed by the competent person?	
<input type="checkbox"/>	<input type="checkbox"/>	Is material removed from excavations managed so it will not overwhelm the protective systems?	
<input type="checkbox"/>	<input type="checkbox"/>	Are barriers provided between excavations and walkways?	
<input type="checkbox"/>	<input type="checkbox"/>	Are excavations by roadways barricaded to warn vehicles of presence or to prevent them from falling in?	
<input type="checkbox"/>	<input type="checkbox"/>	Is there a means of exit from the excavation every 25 feet?	
<input type="checkbox"/>	<input type="checkbox"/>	Is air monitoring required? If yes, Is it performed?	

CONFINED SPACES
29 CFR 1910 Subpart J. EM 385-1-1, Section 6

YES	NO		COMMENT
<input type="checkbox"/>	<input type="checkbox"/>	Is there a Confined Space Entry Program in place?	
<input type="checkbox"/>	<input type="checkbox"/>	Are the confined Spaces identified and labeled?	
<input type="checkbox"/>	<input type="checkbox"/>	Will the Confined Spaces be entered?	
<input type="checkbox"/>	<input type="checkbox"/>	Is appropriate entry documentation used and on-file?	

July 2012

ELECTRICAL
29 CFR 1926 Subpart K. EM 385-1-1, Section 11

YES	NO		COMMENT
<input type="checkbox"/>	<input type="checkbox"/>	Are electrical installations made according to the National Electrical Code and applicable local codes?	
<input type="checkbox"/>	<input type="checkbox"/>	Qualified electricians make all connections and perform all work within 10 feet of live electric equipment.	
<input type="checkbox"/>	<input type="checkbox"/>	Location of underground, overhead, under floor, behind wall electrical lines is known and communicated. Lines are documented by qualified person as de-energized where necessary.	
<input type="checkbox"/>	<input type="checkbox"/>	Workers understand they must not work near live parts of electric circuits, unless they are qualified as required by OSHA or are protected by de-energizing and grounding the parts, guarding the parts by insulation, or other effective means?	
<input type="checkbox"/>	<input type="checkbox"/>	Employees who regularly work on or around energized electrical equipment or lines are instructed in the cardiopulmonary resuscitation (CPR) methods.	
<input type="checkbox"/>	<input type="checkbox"/>	Workers are prohibited from working alone on energized lines or equipment over 600 volts.	
<input type="checkbox"/>	<input type="checkbox"/>	Are Ground-fault circuit interrupters (GFCI's) or is ground fault circuit protection provided to protect employees from ground-fault hazards for all 115 – 120 Volt, 15 and 20 amp receptacle outlets which are not a part of the permanent wiring of a building or structure at construction sites?	
<input type="checkbox"/>	<input type="checkbox"/>	Circuit breakers are labeled.	
<input type="checkbox"/>	<input type="checkbox"/>	Circuit breaker and all cabinets with exposed electric conductors are kept tightly closed.	
<input type="checkbox"/>	<input type="checkbox"/>	Unused openings (including conduit knockouts) in electrical enclosures and fittings are closed with appropriate covers, plugs, or plates.	
<input type="checkbox"/>	<input type="checkbox"/>	Sufficient access and working space is provided and maintained about all electrical equipment to permit ready and safe operations and maintenance.	
<input type="checkbox"/>	<input type="checkbox"/>	Motors are located within sight of their controllers or controller disconnecting means are capable of being locked in the pen position or is a separate disconnecting means installed in the circuit within sight of the motor.	
<input type="checkbox"/>	<input type="checkbox"/>	Are visual inspections of extension cords and cord-and plug-connected equipment conducted daily? Is equipment found damaged or defective tagged and removed from service, and not used until repaired?	
<input type="checkbox"/>	<input type="checkbox"/>	Wet Areas - Is portable lighting used in wet or conductive locations, such as tanks or boilers operated at no more than 12 volts and protected by GFCIs.	
<input type="checkbox"/>	<input type="checkbox"/>	Are electrical installations in hazardous areas to NEC?	
<input type="checkbox"/>	<input type="checkbox"/>	Metal ladders and tools including tape measures or fabric with metal thread are prohibited where contact with energized electrically parts is possible.	
<input type="checkbox"/>	<input type="checkbox"/>	All extension cords are the three-wire type, designed and rated for hard or extra hard usage?	
<input type="checkbox"/>	<input type="checkbox"/>	Worn or frayed electrical cords or cables are taken out of service. Fastening with staples, hanging from nails or suspending extension cords by wire is prohibited.	
<input type="checkbox"/>	<input type="checkbox"/>	Electric wire/flexible cord passing through work areas is protected from damage such as foot traffic, vehicles, sharp corners, projections and pinching? Flexible cords and cables passing through holes are protected by bushings or fittings?	
<input type="checkbox"/>	<input type="checkbox"/>	Before an employee or contractor performs any service or maintenance on a system where the unexpected energizing, start up, or release of kinetic or stored energy could occur and cause injury or damage, the system is to be isolated. Only authorized persons may apply and remove lockouts and tags.	
<input type="checkbox"/>	<input type="checkbox"/>	Contractors planning to use hazardous energy control procedures submit their hazardous energy control plan to the WESTON site safety officer or designee before implementing lockout/tagout procedures.	
<input type="checkbox"/>	<input type="checkbox"/>	There is a site specific hazardous energy control plan that clearly and specifically outlines the scope, purpose, authorization, rules and techniques to be used for the control of hazardous energy.	
<input type="checkbox"/>	<input type="checkbox"/>	Workers possess the knowledge and skills required for the safe application, usage, and removal of energy controls.	

July 2012

WELDING AND CUTTING
29 CFR 1926 Subpart J. EM 385-1-1, Section 10

YES	NO		COMMENT
<input type="checkbox"/>	<input type="checkbox"/>	Prior to performing welding, cutting or any other heat or spark producing activity, an assessment of the area is made by a competent person to identify combustible materials and potential sources of flammable atmospheres.	
<input type="checkbox"/>	<input type="checkbox"/>	Welders, cutters and their supervisors are trained in the safe operation of their equipment, safe welding and cutting practices, hot work permit requirements, and fire protection.	
<input type="checkbox"/>	<input type="checkbox"/>	Welding and cutting equipment is inspected daily before use. Unsafe equipment is taken out of use, replaced, or repaired.	
<input type="checkbox"/>	<input type="checkbox"/>	Workers and the public are shielded from welding rays, flashes, sparks, molten metal, and slag.	
<input type="checkbox"/>	<input type="checkbox"/>	Employees performing welding, cutting, or heating are protected by PPE appropriate for the hazards (e.g., respiratory, vision and skin protection).	
<input type="checkbox"/>	<input type="checkbox"/>	Compatible fire extinguishing equipment is provided in the immediate vicinity of welding or cutting operations.	
<input type="checkbox"/>	<input type="checkbox"/>	Drums, tanks, or other containers and equipment which have contained hazardous materials shall be thoroughly cleaned before welding or cutting. Cleaning shall be performed in accordance with NFPA 327, <u>Cleaning or Safeguarding Small Tanks and Containers</u> , ANSI/AWS F4.1, <u>Recommended Safe Practices for the Preparation for Welding and Cutting of Containers That Have Held Hazardous Substances</u> , and applicable health and safety plan requirements.	

HAND AND POWER TOOL SAFETY
29 CFR 1926 Subpart I. EM 385-1-1, Section 13

YES	NO		COMMENT
<input type="checkbox"/>	<input type="checkbox"/>	Power tools are from a manufacturer listed by a nationally recognized testing laboratory for the specific application for which they are to be used.	
<input type="checkbox"/>	<input type="checkbox"/>	Hand & power tools are inspected, maintained, tested, and determined to be in safe operating condition before use.	
<input type="checkbox"/>	<input type="checkbox"/>	Tools found to be unsafe are not used, tagged and repaired or destroyed.	
<input type="checkbox"/>	<input type="checkbox"/>	Users of tools are trained in safe use.	
<input type="checkbox"/>	<input type="checkbox"/>	Electrical tools have cords and plug connections in good repair.	
<input type="checkbox"/>	<input type="checkbox"/>	Electrical tools are effectively grounded or approved double insulated.	
<input type="checkbox"/>	<input type="checkbox"/>	Reciprocating, rotating, and moving parts of equipment are guarded if they may be accessed by employees or they otherwise create a hazard.	
<input type="checkbox"/>	<input type="checkbox"/>	Safety clips/retainers are installed and maintained on pneumatic impact tool connections.	
<input type="checkbox"/>	<input type="checkbox"/>	Chain saws have an automatic chain brake or anti-kickback device.	
<input type="checkbox"/>	<input type="checkbox"/>	Pneumatic and hydraulic hoses and fittings are inspected regularly.	
<input type="checkbox"/>	<input type="checkbox"/>	Employees who operate powder actuated tools are trained and carry valid operator's cards.	
<input type="checkbox"/>	<input type="checkbox"/>	Powder activated tools are stored in individual locked containers, when not in use and are not loaded until ready to use.	
<input type="checkbox"/>	<input type="checkbox"/>	Powder actuated tools are inspected for obstructions or defects daily before use.	
<input type="checkbox"/>	<input type="checkbox"/>	Powder actuated tool operators have appropriate PPE.	

RIGGING
29 CFR 1926 Subpart H. EM 385-1-1, Section 15

YES	NO		COMMENT
<input type="checkbox"/>	<input type="checkbox"/>	Rigging equipment is inspected as specified by the manufacturer, by a qualified person, before use on each shift and as necessary to assure that it is safe.	
<input type="checkbox"/>	<input type="checkbox"/>	Defective equipment is removed from service.	
<input type="checkbox"/>	<input type="checkbox"/>	Rigging not in use is removed from the work area, properly stored, and maintained in good condition.	
<input type="checkbox"/>	<input type="checkbox"/>	Wire rope removed from service for defects is cut up or plainly marked as unfit for use as rigging.	
<input type="checkbox"/>	<input type="checkbox"/>	The number of saddle clips used to form eyes in wire rope conforms with Table H-20, are spaced evenly and the saddles are on the live side.	
<input type="checkbox"/>	<input type="checkbox"/>	Chain rigging has a tag clearly indicating load limits, is inspected before initial use, then weekly, and is of alloyed metal.	
<input type="checkbox"/>	<input type="checkbox"/>	Fiber rope rigging is not used if it is frozen or has been subject to acids or excessive heat.	
<input type="checkbox"/>	<input type="checkbox"/>	Slings and their fittings and fastenings are inspected before use on each shift and as needed during use.	
<input type="checkbox"/>	<input type="checkbox"/>	Drums, sheaves, and pulleys on rigging hardware are smooth and free of surface defects that can damage rigging.	

MATERIAL HANDLING, STORAGE, AND DISPOSAL
29 CFR 1926 Subpart H. EM 385-1-1, Section 14

YES	NO		COMMENT
<input type="checkbox"/>	<input type="checkbox"/>	Employees are trained in and use safe lifting techniques.	
<input type="checkbox"/>	<input type="checkbox"/>	Materials are not moved or suspended over workers unless positive precautions have been taken to protect workers.	
<input type="checkbox"/>	<input type="checkbox"/>	Conveyors are constructed, inspected, & maintained by qualified persons according to manufacturer's recommendations.	
<input type="checkbox"/>	<input type="checkbox"/>	All conveyors are to be equipped with emergency stopping devices.	
<input type="checkbox"/>	<input type="checkbox"/>	Hazardous exposed moving machine parts are guarded mechanically, electrically or by location.	
<input type="checkbox"/>	<input type="checkbox"/>	Controls are clearly marked and/or labeled to indicate the function controlled.	
<input type="checkbox"/>	<input type="checkbox"/>	Taglines are used for suspended loads where the movement may be hazardous to persons.	
<input type="checkbox"/>	<input type="checkbox"/>	Material in storage is protected from falling or collapse by effective stacking, blocking, cribbing, etc.	
<input type="checkbox"/>	<input type="checkbox"/>	Walkways and aisles are to be kept clear.	
<input type="checkbox"/>	<input type="checkbox"/>	Materials are not stored on scaffolds or runways in excess of normal placement or in excess of safe load limits.	
<input type="checkbox"/>	<input type="checkbox"/>	Work areas and means of access are maintained safe and orderly.	
<input type="checkbox"/>	<input type="checkbox"/>	Tools, materials, extension cords, hoses or debris do not cause tripping or other hazards.	
<input type="checkbox"/>	<input type="checkbox"/>	Storage and construction sites are kept free from the accumulation of combustible materials.	
<input type="checkbox"/>	<input type="checkbox"/>	Waste materials and rubbish are placed in containers or, if appropriate, in piles. Waste materials are disposed of in accord with applicable local, state, or federal requirements.	

FLOATING PLANT AND MARINE ACTIVITIES
29 CFR 1926 Subpart O. EM 385-1-1 Section 19

YES	NO		COMMENT
<input type="checkbox"/>	<input type="checkbox"/>	Floating plants that are regulated by the USCG have current inspections and certificates.	
<input type="checkbox"/>	<input type="checkbox"/>	Before any floating plant is brought to the job site and placed in service it is inspected and determined to be in safe operating condition	
<input type="checkbox"/>	<input type="checkbox"/>	Periodic inspections are made such that safe operating conditions are maintained. Strict compliance with EM 385-1-1, Section 19 is expected.	
<input type="checkbox"/>	<input type="checkbox"/>	Plans are in place for removing or securing the plant and evacuation of personnel endangered by severe weather and other marine emergencies such as; fire, flooding, man overboard, hazardous materials incidents, etc.	
<input type="checkbox"/>	<input type="checkbox"/>	Means of access are properly secured, guarded, and maintained free of slipping and tripping hazards.	
<input type="checkbox"/>	<input type="checkbox"/>	Dredging operations follow guidelines as established in EM 385-1-1, Section 19.D.	

PRESSURIZED EQUIPMENT AND SYSTEMS
29 CFR 1926 Subparts I, F. EM 385-1-1, Section 20

YES	NO		COMMENT
<input type="checkbox"/>	<input type="checkbox"/>	Pressurized equipment and systems are inspected before being placed into service.	
<input type="checkbox"/>	<input type="checkbox"/>	Pressurized equipment or systems found to be unsafe are tagged "Out of Service-Do Not Use".	
<input type="checkbox"/>	<input type="checkbox"/>	Systems and equipment are operated, inspected, and maintained by qualified, designated personnel.	
<input type="checkbox"/>	<input type="checkbox"/>	Safe clearance, lockout/tagout procedures are followed as appropriate during maintenance or repair.	
<input type="checkbox"/>	<input type="checkbox"/>	Air hose, pipes, fittings are pressure-rated for the activity. Defective hoses are removed from service.	
<input type="checkbox"/>	<input type="checkbox"/>	Hoses aren't laid over ladders, steps, scaffolds, or walkways in a manner that creates a tripping hazard.	
<input type="checkbox"/>	<input type="checkbox"/>	The use of compressed air for personal cleaning is prohibited. The use of compressed air for other cleaning is restricted to less than 30 psig.	
<input type="checkbox"/>	<input type="checkbox"/>	Compressed gas cylinders are stored in well-ventilated locations.	
<input type="checkbox"/>	<input type="checkbox"/>	Cylinders in storage are separated from flammable or combustible liquids and from easily ignitable materials by at least 40 feet or by a minimum five feet tall, ½ -hour fire resistive partition.	
<input type="checkbox"/>	<input type="checkbox"/>	Stored cylinders containing oxidizing gases are separated from fuel gas cylinders by at least 20 feet or by a minimum five feet tall, ½ -hour fire resistive partition.	
<input type="checkbox"/>	<input type="checkbox"/>	Cylinder valve caps are in place when cylinders are in storage, in transit, or a regulator is not in place.	
<input type="checkbox"/>	<input type="checkbox"/>	Compressed gas cylinders in service are secured in substantial fixed or portable racks or hand trucks.	
<input type="checkbox"/>	<input type="checkbox"/>	Oxygen cylinders and fittings are kept away from, and free from oil and grease.	
<input type="checkbox"/>	<input type="checkbox"/>	Cylinder Storage areas are posted with the names of the gases in storage and with signs indicating "No Smoking or Open Flame".	
<input type="checkbox"/>	<input type="checkbox"/>	Cylinders are to be stored such that mechanical and corrosion damage is avoided. Cylinders are not to be stored in areas required as an egress path.	
<input type="checkbox"/>	<input type="checkbox"/>	Cylinders may be stored in the open outdoors, however, they must be protected from the ground to prevent corrosion and must be protected from temperatures that may exceed 125 degrees F.	

July 2012

WORK PLATFORMS/SCAFFOLDS
29 CFR 1926 Subparts L, M, N. EM 385-1-1 Sections 21, 22

YES	NO		COMMENT
<input type="checkbox"/>	<input type="checkbox"/>	Work platforms are erected, used, inspected, tested, maintained and repaired according to manufacturer's requirements.	
<input type="checkbox"/>	<input type="checkbox"/>	Construction, inspection, and disassembly of scaffolds is under the direction of a competent person.	
<input type="checkbox"/>	<input type="checkbox"/>	Workers on scaffolding have been trained by a qualified person.	
<input type="checkbox"/>	<input type="checkbox"/>	Scaffolds are erected on a firm and level surface and are square and plumb.	
<input type="checkbox"/>	<input type="checkbox"/>	Scaffolds are not loaded in excess of rated capacity.	
<input type="checkbox"/>	<input type="checkbox"/>	Working levels of work platforms are fully planked or decked.	
<input type="checkbox"/>	<input type="checkbox"/>	Planks are in good condition and free from obvious defects.	
<input type="checkbox"/>	<input type="checkbox"/>	Fabricated frame scaffolding four times higher than the base width is secured to building/structure according to manufacturer's instruction and/or OSHA requirements.	
<input type="checkbox"/>	<input type="checkbox"/>	Working platforms of scaffolding over ten feet in height have guard rails meeting OSHA specifications. Fall protection is suggested at four feet or greater.	
<input type="checkbox"/>	<input type="checkbox"/>	Scaffolding/work platforms are accessed by means of a properly secured ladder or equivalent. Built on ladders conform to scaffold ladder requirements. Climbing of braces is not allowed.	
<input type="checkbox"/>	<input type="checkbox"/>	Crane supported work platforms are designed and used in accordance with OSHA standards.	
<input type="checkbox"/>	<input type="checkbox"/>	Elevating work platforms are operated, inspected, and maintained according to the equipment operations manual.	
<input type="checkbox"/>	<input type="checkbox"/>	Employees working in aerial lifts remain firmly on the floor of the basket. Employees use fall protection while in an aerial lift basket.	

WALKING AND WORKING SURFACES AND STAIRS
29 CFR 1926 Subparts L, M, X. EM 385-1-1, Sections 21, 22, 24

YES	NO		COMMENT
<input type="checkbox"/>	<input type="checkbox"/>	Work areas are clean, sanitary, and orderly	
<input type="checkbox"/>	<input type="checkbox"/>	Work surfaces are kept dry or appropriate means are taken to assure the surfaces are slip-resistant	
<input type="checkbox"/>	<input type="checkbox"/>	Accumulations of combustible dust are routinely removed.	
<input type="checkbox"/>	<input type="checkbox"/>	Aisles and passageways are kept clear and marked as appropriate.	
<input type="checkbox"/>	<input type="checkbox"/>	There is safe clearance for walking in aisles where motorized or mechanical handling equipment is operating.	
<input type="checkbox"/>	<input type="checkbox"/>	Materials or equipment is stored in such a way that sharp projections will not interfere with the walkway.	
<input type="checkbox"/>	<input type="checkbox"/>	Changes of direction or elevation are readily identifiable.	
<input type="checkbox"/>	<input type="checkbox"/>	Aisles or walkways that pass near moving or operating machinery, welding operations or similar operations are arranged so employees will not be subjected to potential hazards.	
<input type="checkbox"/>	<input type="checkbox"/>	Standard guardrails are provided wherever aisle or walkway surfaces are elevated more than 30 inches above any adjacent floor or the ground and bridges provided where workers must cross over conveyors and similar hazards.	
<input type="checkbox"/>	<input type="checkbox"/>	There are standard stair rails or handrails on all stairways having four or more risers or with an elevation of 30 or more inches.	
<input type="checkbox"/>	<input type="checkbox"/>	Stairways are at least 22 inches wide. (General Industry Standard)	
<input type="checkbox"/>	<input type="checkbox"/>	Stairs angle no more than 50 and no less than 30 degrees, risers are uniform from top to bottom (plus or minus 1/4 inch) and are provided with a surface that renders them slip resistant.	

July 2012

<input type="checkbox"/>	<input type="checkbox"/>	Stairway handrails are not less than 36 inches above the leading edge of stair treads and have at least 3 inches of clearance between the handrails and the wall or surface they are mounted on.	
<input type="checkbox"/>	<input type="checkbox"/>	Where doors or gates open directly on a stairway, there is a platform provided so the swing of the door does not reduce the width of the platform to less than 20 inches.	
<input type="checkbox"/>	<input type="checkbox"/>	Where stairs or stairways exit directly into any area where vehicles may be operated, there are adequate barriers and warnings provided to prevent employees stepping into the path of traffic.	
<input type="checkbox"/>	<input type="checkbox"/>	Signs are posted showing the load capacity of elevated storage areas.	
<input type="checkbox"/>	<input type="checkbox"/>	An appropriate means of access and egress is provided for surfaces with 19 or more inches of elevation change.	
		Material on elevated surfaces is minimized, with that necessary for immediate work requirements piled, stacked, or racked in a manner to prevent it from tipping, falling, collapsing, rolling, or spreading.	

FLOOR AND WALL HOLES AND OPENINGS
29 CFR 1926 Subpart M. EM 385-1-1, Section 24

YES	NO		COMMENT
<input type="checkbox"/>	<input type="checkbox"/>	Floor and roof openings that persons can walk into or fall through are guarded by a physical barrier or covered.	
<input type="checkbox"/>	<input type="checkbox"/>	Holes (defined as equal to or greater than 2 inches in least dimension) where person could trip must be covered/protected.	
<input type="checkbox"/>	<input type="checkbox"/>	Unprotected sides and edges on a walking/working surface six feet or more (note four feet in General Industry) are protected by guardrail system, safety net, or Personal Fall Arrest System (PFAS).	
<input type="checkbox"/>	<input type="checkbox"/>	Unused portions of service pits and pits not actually in use are either covered or protected by guardrails or equivalent.	
<input type="checkbox"/>	<input type="checkbox"/>	Coverings for holes or other openings must be constructed of sufficient strength to support any anticipated load, must be secured in place to prevent accidental removal or displacement, and must be marked indicating purpose (e.g., stenciled "Hole" or painted contrasting color to surroundings).	

July 2012

LADDERS
29 CFR 1926 Subpart X. EM 385-1-1, Section 21

YES	NO		COMMENT
<input type="checkbox"/>	<input type="checkbox"/>	Portable ladders are used for their designed purpose only.	
<input type="checkbox"/>	<input type="checkbox"/>	Portable ladders are examined for defects prior to, and after use.	
<input type="checkbox"/>	<input type="checkbox"/>	Ladders found to be defective are clearly tagged to indicate "DO NOT USE" if repairable, or destroyed immediately if no repair is possible.	
<input type="checkbox"/>	<input type="checkbox"/>	Workers are trained in hazards associated with ladder use and how to inspect ladders.	
<input type="checkbox"/>	<input type="checkbox"/>	Ladders have secure footing provided by a combination of safety feet, top of ladder tie-offs and mud cills or a person holding the ladder to prevent slipping.	
<input type="checkbox"/>	<input type="checkbox"/>	The handrails of a straight ladder used to get from one level to another extend at least 36 inches above the landing.	
<input type="checkbox"/>	<input type="checkbox"/>	Ladders conform to construction criteria of ANSI Standards A-14.1 and A-14.2.	
<input type="checkbox"/>	<input type="checkbox"/>	Wooden ladders are not painted with an opaque covering such that signs of flaws, cracks, or drying are obscured.	
<input type="checkbox"/>	<input type="checkbox"/>	Fixed ladders are constructed and used according to OSHA Standards, 29 CFR 1910.27 and ANSI A-14.3.	
<input type="checkbox"/>	<input type="checkbox"/>	Rungs, cleats or steps, and side rails that may be used for handholds when climbing, offer adequate gripping surface and are free of splinters, splivers or burrs, and substances that could cause slipping.	
<input type="checkbox"/>	<input type="checkbox"/>	Fixed ladders of greater than 24 feet have cages or other approved fall protection devices. (Note General Industry is 20 feet).	
<input type="checkbox"/>	<input type="checkbox"/>	Where fall protection is provided by ladder safety systems (body belts or harnesses, lanyards and braking devices with safety lines or rails), systems meet the requirements of and are used in accordance with WESTON Fall Protection Standard Practices and are compatible with construction of the ladder system.	

DEMOLITION
29 CFR 1926 Subpart T. EM 385-1-1, Section 23

YES	NO		COMMENT
<input type="checkbox"/>	<input type="checkbox"/>	Prior to initiating demolition activities an engineering survey (by a competent person) and a demolition plan (by a competent person) is completed.	
<input type="checkbox"/>	<input type="checkbox"/>	All employees engaged in demolition activities are instructed in the demolition plan.	
<input type="checkbox"/>	<input type="checkbox"/>	It has been determined through the engineering survey and outlined in the plan, if any hazardous materials or conditions (e.g., asbestos, lead, utility connections, etc.) exist. Such hazards are controlled or eliminated before demolition is started.	
<input type="checkbox"/>	<input type="checkbox"/>	Continued inspections, by a competent person, are conducted to ensure safe employee working conditions.	

TREE MAINTENANCE AND REMOVAL
29 CFR 1910 Subpart R. EM 385-1-1, Section 31

YES	NO		COMMENT
<input type="checkbox"/>	<input type="checkbox"/>	Tree maintenance or removal is done is under the direction of a qualified person.	
<input type="checkbox"/>	<input type="checkbox"/>	Tree work, in the vicinity of charged electric lines, is by trained persons qualified to work with electricity and tree work. Appropriate distances are maintained for all workers who are not qualified.	
<input type="checkbox"/>	<input type="checkbox"/>	Equipment is inspected, maintained, repaired, and used in accordance with the manufacturer's directions.	
<input type="checkbox"/>	<input type="checkbox"/>	Prior to felling actions are planned to include clearing of the area to permit safe working conditions and escape.	
<input type="checkbox"/>	<input type="checkbox"/>	Employees must be trained in the safe operation of all equipment.	
<input type="checkbox"/>	<input type="checkbox"/>	All equipment and machinery is inspected and determined safe prior to use.	
<input type="checkbox"/>	<input type="checkbox"/>	Work is performed under requirements of FLD 43.	

July 2012

BLASTING
29 CFR 1926 Subpart U. EM 385-1-1, Section 29

YES	NO		COMMENT
<input type="checkbox"/>	<input type="checkbox"/>	A blasting safety plan is developed prior to bringing explosives on-site.	
<input type="checkbox"/>	<input type="checkbox"/>	The transportation, handling, storage, and use of explosives, blasting agents, and blasting equipment must be directed and supervised by a person with proven experience and ability in blasting operations. Licensing of person is verified.	
<input type="checkbox"/>	<input type="checkbox"/>	Blasting operations in or adjacent to cofferdams, piers, underwater structures, buildings, structures, or other facilities must be carefully planned with full consideration to potential vibration and damage.	

HAZARDOUS, TOXIC, AND RADIOACTIVE WASTE AND UNDERGROUND STORAGE TANK (UST) ACTIVITIES
29 CFR 1926 Subpart D. EM 385-1-1, Section 28

YES	NO		COMMENT
<input type="checkbox"/>	<input type="checkbox"/>	All construction activities performed with known or potential exposure to hazardous waste are conducted in accordance with Hazardous Waste Operations and Emergency Response requirements.	

CONCRETE and MASONRY CONSTRUCTION
29 CFR 1926 Subpart Q. EM 385-1-1, Section 27

YES	NO		COMMENT
<input type="checkbox"/>	<input type="checkbox"/>	Construction loads are not placed on a concrete or masonry structure or portion of a concrete or masonry structure unless the employer determines, based on information from a person who is qualified in structural design, that the structure or portion of the structure is capable of supporting the loads.	
<input type="checkbox"/>	<input type="checkbox"/>	Employees are not permitted to work above or in positions exposed to protruding reinforcing steel or other impalement hazards unless provisions have been made to control the hazard.	
<input type="checkbox"/>	<input type="checkbox"/>	Sections of concrete conveyances and airlines under pressure are secured with wire rope (or equivalent material) in addition to the regular couplings or connections.	
<input type="checkbox"/>	<input type="checkbox"/>	Structural and reinforcing steel for walls, piers, columns, and similar vertical structures is supported and/or guyed to prevent overturning or collapse	
<input type="checkbox"/>	<input type="checkbox"/>	All form-work, shoring, and bracing is designed, fabricated, erected, supported, braced, and maintained so it will safely support all vertical and lateral loads that may be applied until the loads can be supported by the structure.	
<input type="checkbox"/>	<input type="checkbox"/>	Shoring equipment is inspected prior to erection to determine that it is specified in the shoring design. Any equipment found to be damaged is not used.	
<input type="checkbox"/>	<input type="checkbox"/>	Erected shoring equipment is inspected immediately prior to, during, and immediately after the placement of concrete. Any shoring equipment that is found to be damaged, displaced, or weakened is immediately reinforced or re-shored.	
<input type="checkbox"/>	<input type="checkbox"/>	Shoring, vertical slip forms and jacks conform with requirements of Section 27.B.08-13 of USACE EM 385-1-1.	
<input type="checkbox"/>	<input type="checkbox"/>	Forms and shores (except those on slab or grade and slip forms) are not removed until the individual responsible for forming and/or shoring determines that the concrete has gained sufficient strength to support its weight and all superimposed loads.	
<input type="checkbox"/>	<input type="checkbox"/>	Precast concrete members are adequately supported to prevent overturning or collapse until permanent connections are complete	
<input type="checkbox"/>	<input type="checkbox"/>	No one is permitted under pre-cast concrete members being lifted or tilted into position except employees required for the erection of those members.	
<input type="checkbox"/>	<input type="checkbox"/>	Lift slab operations are planned and designed by a registered engineer or architect.	
<input type="checkbox"/>	<input type="checkbox"/>	Hydraulic jacks used in lift slab construction have a safety device that causes the jacks to support the load in any position if the jack malfunctions	
<input type="checkbox"/>	<input type="checkbox"/>	No one is permitted under the slab during jacking operations.	
<input type="checkbox"/>	<input type="checkbox"/>	A limited access zone is established whenever a masonry wall is being constructed.	
<input type="checkbox"/>	<input type="checkbox"/>	Fall protection is provided to masonry workers exposed to falls of 6 feet or more.	

July 2012

STEEL ERECTION
29 CFR 1926 Subpart R. EM 385-1-1, Section 27

YES	NO		COMMENT
<input type="checkbox"/>	<input type="checkbox"/>	Impact wrenches have a locking device for retaining the socket. Containers shall be provided for storing or carrying rivets, bolts, and drift pins, and secured against accidental displacement when aloft.	
<input type="checkbox"/>	<input type="checkbox"/>	Structural and reinforcing steel for walls, piers, columns, and similar vertical structures shall be guyed and supported to prevent collapse	
<input type="checkbox"/>	<input type="checkbox"/>	No loading is placed upon steel joists until all bridging is completely and permanently installed.	
<input type="checkbox"/>	<input type="checkbox"/>	Workers are provided fall protection whenever they are exposed to falls of 1.8 m (6 ft) or more (EM 385-1-1).	
<input type="checkbox"/>	<input type="checkbox"/>	Temporary flooring in skeleton steel erection conforms with Section 27.F of USACE 385-1-1	

ROOFING
29 CFR 1926 Subpart M. EM 385-1-1, Sections 21, 22, 24, 27

Yes	No		COMMENT
<input type="checkbox"/>	<input type="checkbox"/>	In the construction, maintenance, repair, and demolition, of roofs, fall protection systems is provided that will prevent personnel from slipping and falling from the roof and prevent personnel on lower levels from being struck by falling objects	
<input type="checkbox"/>	<input type="checkbox"/>	On all roofs greater than 4.8 m (16 ft) in height, a hoisting device, stairways, or progressive platforms are furnished for supplying materials and equipment.	
<input type="checkbox"/>	<input type="checkbox"/>	Roofing materials and accessories that could be moved by the wind, including metal roofing panels, that are on the roof and unattached are secured when wind speeds are greater than, or are anticipated to exceed, 10 mph.	
<input type="checkbox"/>	<input type="checkbox"/>	Level, guarded platforms are provided at the landing area on the roof.	
<input type="checkbox"/>	<input type="checkbox"/>	When their use is permitted, warning line systems comply with USACE Section 27.07 of EM 385-1-1.	
<input type="checkbox"/>	<input type="checkbox"/>	Workers involved in roof-edge materials handling or working in a storage area located on a roof with a slope \geq to four vertical to twelve horizontal and with <u>edges 6 ft or more above</u> lower levels are protected by the use of a guardrail, safety net, or personal fall arrest system along all unprotected roof sides and edges of the area.	

July 2012

ENVIRONMENTAL COMPLIANCE

Yes	No		Comments
<input type="checkbox"/>	<input type="checkbox"/>	Environmental Compliance and Waste Management Plan on file.	
<input type="checkbox"/>	<input type="checkbox"/>	Waste Determination Made.	
<input type="checkbox"/>	<input type="checkbox"/>	Manifest and/or Shipping Papers prepared and filed.	
<input type="checkbox"/>	<input type="checkbox"/>	Manifest Exception Reports Prepared, as necessary. Procedures to track manifests in place.	
<input type="checkbox"/>	<input type="checkbox"/>	State Annual and EPA Biennial Reporting Information Available.	
<input type="checkbox"/>	<input type="checkbox"/>	RCRA Personnel Training Records on file.	
<input type="checkbox"/>	<input type="checkbox"/>	CAA Permits on file.	
<input type="checkbox"/>	<input type="checkbox"/>	CWA Permits on file.	
<input type="checkbox"/>	<input type="checkbox"/>	RCRA Permits on file.	
<input type="checkbox"/>	<input type="checkbox"/>	State and/or Local Permits on file.	
<input type="checkbox"/>	<input type="checkbox"/>	RCRA Inspections conducted and Documentation on file.	
<input type="checkbox"/>	<input type="checkbox"/>	Transporter and TSD compliance information on file.	
<input type="checkbox"/>	<input type="checkbox"/>	Waste Accumulation Areas Managed Properly.	
<input type="checkbox"/>	<input type="checkbox"/>	Wetlands Areas Identified and Protected.	
<input type="checkbox"/>	<input type="checkbox"/>	Endangered, Threatened, or Special Concern Species or Areas Identified and Protective Methods Determined.	
<input type="checkbox"/>	<input type="checkbox"/>	Run-on and Runoff Concerns Identified and Managed.	
<input type="checkbox"/>	<input type="checkbox"/>	Adjacent Land Areas Protected as Necessary.	
<input type="checkbox"/>	<input type="checkbox"/>	Non-Hazardous Solid Wastes Managed Properly.	

MISCELLANEOUS REGULATORY and POLICY COMPLIANCE

Yes	No		Comments
<input type="checkbox"/>	<input type="checkbox"/>	Personnel Training Records for DOT Materials Handling on file.	
<input type="checkbox"/>	<input type="checkbox"/>	Noise Control Issues Addressed and Managed.	
<input type="checkbox"/>	<input type="checkbox"/>	Site Security Issues Identified and Managed.	
<input type="checkbox"/>	<input type="checkbox"/>	Known Historical, Archeological, and Cultural Resources Identified and Managed.	
<input type="checkbox"/>	<input type="checkbox"/>	WESTON EHS Analysis Checklist In Use.	
<input type="checkbox"/>	<input type="checkbox"/>	Safety Observation and Recognition Program in place.	
<input type="checkbox"/>	<input type="checkbox"/>	Weekly EHS Report Card System in place.	
<input type="checkbox"/>	<input type="checkbox"/>	Federal, State, and Local Required Postings in place.	
<input type="checkbox"/>	<input type="checkbox"/>	Site specific Lockout/Tagout Program is in place.	
<input type="checkbox"/>	<input type="checkbox"/>	Site-specific Confined Space Program is in place.	
<input type="checkbox"/>	<input type="checkbox"/>	Site Safety Officer filing system is in place and up to date.	

July 2012

ATTACHMENT I HAZARD CHECKLIST

July 2012

EHS REVIEW CHECKLIST-WESTON FIELD OPERATIONS

This form is to be completed prior to performing an EHS review of a Field Project to what hazards have been anticipated and determine which elements of the BBS EHS Field Review Checklist apply and capture positive observations and Corrective Action items. The BBS EHS Field Review Checklist elements will serve as a guide for the review.

Site Manager/EHS Officer: Date: Location:				SOW:				Team (name or reference via daily sign-in sheet) Weston Team Contractors											
HAZARDS IDENTIFIED (check those applicable)				I am confident hazard is identified and controls identified in HASP				Y = Under control +; N = needs work -											
<input type="checkbox"/>	<input type="checkbox"/>	<u>Chemical</u>	<input type="checkbox"/> Y <input type="checkbox"/> N	<input type="checkbox"/>	<input type="checkbox"/>	<u>Radiological</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Mobile Const. Equipment	<input type="checkbox"/>	<input type="checkbox"/>	Utilities	<input type="checkbox"/>	<input type="checkbox"/>	- Permits needed	
<input type="checkbox"/>	<input type="checkbox"/>	Flammable/combustible	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Ultra-Violet	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Materials handling/Conveyors	<input type="checkbox"/>	<input type="checkbox"/>	Falls at same level	<input type="checkbox"/>	<input type="checkbox"/>		
<input type="checkbox"/>	<input type="checkbox"/>	Corrosive	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sunlight	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Cranes/ Pile Driving/Dredge	<input type="checkbox"/>	<input type="checkbox"/>	Slippery surface Wet/Ice/Snow	<input type="checkbox"/>	<input type="checkbox"/>	Water - CWA	
<input type="checkbox"/>	<input type="checkbox"/>	Oxidizer	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Infrared	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Compressed Gases	<input type="checkbox"/>	<input type="checkbox"/>	Ergonomic	<input type="checkbox"/>	<input type="checkbox"/>	Storm Water	
<input type="checkbox"/>	<input type="checkbox"/>	Reactive	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lasers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Traffic	<input type="checkbox"/>	<input type="checkbox"/>	Manual Lifting	<input type="checkbox"/>	<input type="checkbox"/>	SDA	
<input type="checkbox"/>	<input type="checkbox"/>	Toxic	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	XRF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	High Pressure Washers	<input type="checkbox"/>	<input type="checkbox"/>	Pushing/pulling	<input type="checkbox"/>	<input type="checkbox"/>	NPDES	
<input type="checkbox"/>	<input type="checkbox"/>	OSHA Specific Std	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Density Gauges	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Hand and Power Tools	<input type="checkbox"/>	<input type="checkbox"/>	Repetitive motion	<input type="checkbox"/>	<input type="checkbox"/>	Waste - RCRA/TSCA	
<input type="checkbox"/>	<input type="checkbox"/>	Asbestos	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Isotopes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Drilling & Boring	<input type="checkbox"/>	<input type="checkbox"/>	Rough Terrain	<input type="checkbox"/>	<input type="checkbox"/>	Other Solid	
<input type="checkbox"/>	<input type="checkbox"/>	Lead	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>Physical</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Low Illumination	<input type="checkbox"/>	<input type="checkbox"/>	Other Hazards	<input type="checkbox"/>	<input type="checkbox"/>		
<input type="checkbox"/>	<input type="checkbox"/>	Welding/Cutting/Burning	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Motor Vehicle Operation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Caught-in/Caught between	<input type="checkbox"/>	<input type="checkbox"/>	Heat	<input type="checkbox"/>	<input type="checkbox"/>	Land - CERCLA	
<input type="checkbox"/>	<input type="checkbox"/>	UXO/OE/ CWM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Highway - Passenger	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Excavation	<input type="checkbox"/>	<input type="checkbox"/>	Cold	<input type="checkbox"/>	<input type="checkbox"/>		
<input type="checkbox"/>	<input type="checkbox"/>	Process Safety	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Highway – Pickup	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Confined Spaces	<input type="checkbox"/>	<input type="checkbox"/>	Inclement Weather	<input type="checkbox"/>	<input type="checkbox"/>	Other Environmental	
<input type="checkbox"/>	<input type="checkbox"/>	Other	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Special – ATV/Utility	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Machinery	<input type="checkbox"/>	<input type="checkbox"/>	Hot Surfaces/Materials	<input type="checkbox"/>	<input type="checkbox"/>		
<input type="checkbox"/>	<input type="checkbox"/>	Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Working at elevation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Operation/Use of Boats	<input type="checkbox"/>	<input type="checkbox"/>	Fire - Hot Work	<input type="checkbox"/>	<input type="checkbox"/>	Client/Stakeholder	
<input type="checkbox"/>	<input type="checkbox"/>	<u>Biological</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Falls from elevation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Working Over Water	<input type="checkbox"/>	<input type="checkbox"/>	Noise	<input type="checkbox"/>	<input type="checkbox"/>		
<input type="checkbox"/>	<input type="checkbox"/>	Insects	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Ladders	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Electrical	<input type="checkbox"/>	<input type="checkbox"/>	Diving	<input type="checkbox"/>	<input type="checkbox"/>	Team Contractor	
<input type="checkbox"/>	<input type="checkbox"/>	Animals	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Scaffolding	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Electricity (>600V)	<input type="checkbox"/>	<input type="checkbox"/>	Site Security	<input type="checkbox"/>	<input type="checkbox"/>		
<input type="checkbox"/>	<input type="checkbox"/>	Plants	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Aerial lifts	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Electricity (> 50V)	<input type="checkbox"/>	<input type="checkbox"/>	Remote Areas	<input type="checkbox"/>	<input type="checkbox"/>	DG Shipping	
<input type="checkbox"/>	<input type="checkbox"/>	Mold/Fungus	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Striking against/Struck-by	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Electricity (50V or less)	<input type="checkbox"/>	<input type="checkbox"/>	Environmental Risk	<input type="checkbox"/>	<input type="checkbox"/>	Air Ship	
<input type="checkbox"/>	<input type="checkbox"/>	Viral/Bacterial	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Demolition	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Stored Hazardous Energy	<input type="checkbox"/>	<input type="checkbox"/>	Air - Emission Source	<input type="checkbox"/>	<input type="checkbox"/>	Bulk surface ship	
REQUIRED CONTROLS/PROTECTION (check as applicable)						I am confident hazard is identified Protection/controls are implemented and effective						Y = Under control +; N = needs work -							
<input type="checkbox"/>	<input type="checkbox"/>	BBS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Engineering Controls	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Work Permit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Welding Mask	<input type="checkbox"/>	<input type="checkbox"/>	Welding Leathers
<input type="checkbox"/>	<input type="checkbox"/>	BBS orientation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Guard Rails	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Dig Safe Permit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Cutting Glasses	<input type="checkbox"/>	<input type="checkbox"/>	Diving/SCUBA
<input type="checkbox"/>	<input type="checkbox"/>	Safety Vision Comm.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Machine Guards	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Contingency Plan	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Cotton Coverall	<input type="checkbox"/>	<input type="checkbox"/>	Diving/Surface Supplied
<input type="checkbox"/>	<input type="checkbox"/>	Client has BBS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sound Barriers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Critical Lift Plans	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Tyvek Coveralls	<input type="checkbox"/>	<input type="checkbox"/>	Contingency
<input type="checkbox"/>	<input type="checkbox"/>	HASP Posted	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Enclosure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Equip. Inspection Sheets	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Coated Coveralls	<input type="checkbox"/>	<input type="checkbox"/>	Emergency Plan Known
<input type="checkbox"/>	<input type="checkbox"/>	HASP Indoctrination	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Elevation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PPE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fire Resistant clothing	<input type="checkbox"/>	<input type="checkbox"/>	Eye wash/shower Location
<input type="checkbox"/>	<input type="checkbox"/>	Daily EHS Meetings	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Isolation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Air Supplying Respirator	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Arc flash	<input type="checkbox"/>	<input type="checkbox"/>	First Aid Kit Location
<input type="checkbox"/>	<input type="checkbox"/>	Meetings Interactive	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	GFCI	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SCBA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Level A	<input type="checkbox"/>	<input type="checkbox"/>	Fire Extinguisher Location
<input type="checkbox"/>	<input type="checkbox"/>	EHS Observations used	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Assured Ground Program	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Air Purifying Respirator	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	CWM	<input type="checkbox"/>	<input type="checkbox"/>	Spill Kit Location

July 2012

EHS REVIEW CHECKLIST-WESTON FIELD OPERATIONS

This form is to be completed prior to performing an EHS review of a Field Project to what hazards have been anticipated and determine which elements of the BBS EHS Field Review Checklist apply and capture positive observations and Corrective Action items. The BBS EHS Field Review Checklist elements will serve as a guide for the review.

		Recognition/Celebration		Apply Anti-slip/skid Mat			Hard Hat			Safety Shoes/Boots			Severe weather shelter
		Feedback welcome		Administrative Control			Ear Plugs			Rubber Boots			Evacuation Routes
		Coaching is positive		Competent Person Use			Ear Muffs			Gloves			
		Coaching is accepted		Qualified for task			Safety Glasses			Cooling Suits/ Ice Vests			ERMP
		Buddy system for SSE		Trained/Certified			Goggles			Radiant heat Suits			ERM Tool Relevant
		Actively caring evident		Hot Work Permit			Chemical Goggles			Fall Arrest			ERM Plan Exists
		Hierarchy of Controls		CSE Permit			Face Shield			PFD			ERM Plan Communicated
		Elimination/substitution		Lockout/Tag Out			Thermal Shield			Electrical insulation			ERM Plan Implementation

ADDITIONAL HAZARDS IDENTIFIED (List)					I am confident hazard is identified and controls identified in HASP					Y = Under control +; N = needs work -				
		<u>Chemical</u>			<u>Biological/Radiological</u>			<u>Physical</u>			<u>Physical</u>			<u>Environmental</u>

ADDITIONAL REQUIRED CONTROLS/PROTECTION IDENTIFIED					I am confident protection/controls are implemented and effective					Y = Under control +; N = needs work -				
		<u>BBS</u>			<u>Hierarchy</u>			<u>Engineering</u>			<u>Administrative</u>			<u>PPE</u>

Transfer Items needing work to this section												
Items needing work			Regulatory or FLD Reference			Corrective Action			Correct by	Corrected	Person Responsible for Correction	

July 2012

ATTACHMENT J

AUDIT AND OTHER FORMS

July 2012